

# MANUFACTURERS' RECORD

A  
WEEKLY SOUTHERN INDUSTRIAL  
RAILROAD AND FINANCIAL NEWSPAPER.

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VOL. XVII  
No. 7.

\$4.00 per year.  
Single Copy  
10 Cents.

Baltimore, March 22, 1890.



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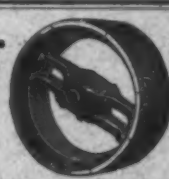
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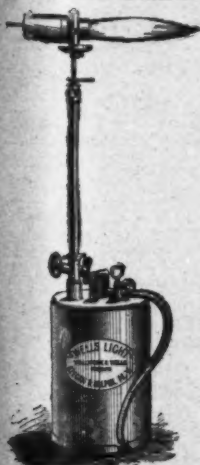
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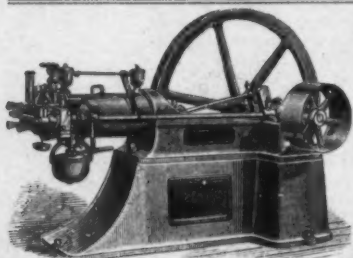
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# MANUFACTURERS' RECORD

A Southern

Industrial, Railroad and Financial

Newspaper.

VOL. XVII. No. 7.  
WEEKLY.

BALTIMORE, MARCH 22, 1890.

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## Manufacturers' Record.

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BALTIMORE, MARCH 22, 1890.

THE interest taken by Northern lumbermen in Southern forests is steadily increasing. Nearly every week we are advised of heavy purchases made, of great mills to be built, and of prospecting parties of wealthy men from the North. But one of the most significant indications of the trend in this direction appeared in a late number of the Mississippi Valley Lumberman, published at Minneapolis, Minn., which we reproduce elsewhere in this issue. The story told by Mr. Van Schaick of what he saw in the course of a three weeks' journey between Pensacola and Galveston, and the figures he gives, showing the difference between the costs of pine forests South and North and of the greater quantity of lumber to the tree, will attract general attention throughout the Northwest and induce many others to seek suitable investments. The most startling statement made by Mr. Van Schaick, and one that will set many to thinking, is that of two cargoes of bridge timber which were shipped from Orange, Texas, to Portland, Me., for the use of the Grand Trunk Railroad. The two ships would pass every Gulf port east of Galveston and all of those along the Atlantic coast on their way to their destination, then their cargoes would be transferred to a railroad and be transported over it through a timber country. The whole interview is a valuable contribution to the history of the South's lumber developments.

### Protection For Mica Needed.

The mining and preparation of mica for market was at one time one of the minor industries of Southern mountaineers. It was commenced in the fall of 1867 by Hon. Thomas L. Clingman, of Asheville, N. C. Others followed his example, and from 1868 to 1887 the industry prospered. It is estimated that during those 20 years there were taken from North Carolina mines and marketed 762,400 pounds, of a value of \$1,608,500. Mica has been found also in New Hampshire, Alabama, South Carolina, Georgia, Virginia and West Virginia, but except in the first-mentioned State there has been no development, and there is at present no inducement to any one to engage in the business, because there is no duty whatever on that article. In consequence of this lack, foreign mica, mined and prepared by the cheapest kind of labor, has virtually supplanted the native product in the American market and has about extinguished this industry by making it unprofitable. Mr. Booker Robertson, of Amelia C. H., Va., a practical miner of large experience, writes on this subject as follows:

"It will be impossible for the mica mining interest of the United States to rally again with no duty on mica and a continual increase of importations every month from countries outside the United States. It may be claimed by some that it is of small interest as compared with other minerals. I admit that fact because there has nothing been done to foster or stimulate its development, and because all other mining industries of the United States have been amply protected, while Mica has never had any duty placed upon it.

I will say here that it is impossible to mine, scale, cut, press and tie up mica in one-pound packages and box for shipment from any mica mine in the United States and make any money out of it in competition with mica mined with pauper labor and entered here duty free, but with a protection of \$1.00 per pound on all cut mica, and \$15.00 to \$20.00 per ton on all crude mica entered at any of our ports, our mines would be re-opened, and the trade in the products of our home mines be revived, and great fields of mica in Virginia and North Carolina, as well in other States, would be opened up by capital which is now used in purchasing foreign mica. It

is just as natural that the demand for mica should increase with the increase of population, and of the demand for stoves, as any other protected industry has increased. The writer, knowing the large circulation of your valuable MANUFACTURERS' RECORD, writes the above with request that you will call public attention to this subject."

The principal part of the cost of mica is not its mining but its preparation for the market. In "Mineral Resources of the United States," (published by the Interior Department) the work is thus described: "The blocks of mica hoisted from the mine are sent to the stripping-room where extraneous matter \* \* \* is removed. The blocks are then split by means of wedges or heavy knives, and are then sent to be "scribed." This scribing is an operation demanding considerable skill and experience, the purpose being to get from a given rough sheet the largest number of valuable sheets. The patterns used are of such different sizes and shapes as are determined by the orders from manufacturers of stoves. \* \* Upon the skill of the scribe depends, to a certain extent, the yield of the cut mica. An unskilled scribe may get from a given block only one half as much cut mica as one experienced in the art. After the blocks have been split and scribed they are sent to the cutters. These are workmen with heavy shears, who cut through the sheets along the scribing." The different sizes are then assorted, put up into neat one-pound packages, tied with fine twine, and are then packed in a strong box for shipment.

All the foregoing requires labor, skill, time and money to accomplish. And this is what Mr. Robertson refers to when he says that money cannot be made out of mica until Congress imposes a protective duty upon that prepared in foreign countries by pauper labor.

MR. J. M. BROSIUS, of Brosius Motor Sewing Machine Co., Atlanta, Ga., in a letter to the MANUFACTURERS' RECORD, says: "I am a subscriber to the MANUFACTURERS' RECORD, and don't intend to be without it as long as I can raise \$4 to pay for it. Our Southland owes to it largely—yes, more than any one other means—the rapid progress we are making. I bid you God-speed in the good work."

### A North Carolina Iron and Steel Enterprise.

Some months ago the MANUFACTURERS' RECORD announced that a company had been organized to build Bessemer iron furnaces at Greensboro, N. C., to be followed by rolling mills, etc., and we welcomed the enterprise as the first important move made to develop the iron and steel industry of North Carolina, and also the first company that had been definitely organized to build a Bessemer plant, including furnaces and rail mill, in the South. As in all important undertakings, there have been some unavoidable delays in getting all the plans into final shape for the actual work of construction, but it is now announced that everything has been arranged for the letting of contracts for the building of the furnaces. To make doubly sure of the advantages of Greensboro for this industry, the managers delayed matters to secure additional expert investigations, and these were so satisfactory as to confirm them in their faith in the enterprise. The directors of the company are men of great prominence in financial and railroad circles. They are: George S. Scott, New York, until recently president of the Richmond & Danville Railroad; A. B. Andrews, second vice-president Richmond & Danville Railroad Co., Raleigh, N. C.; James A. Odell, president Odell Hardware Co., Greensboro, N. C.; Julius A. Gray, president Cape Fear & Yadkin Valley Railroad Co., Greensboro, N. C.; Theo. F. Klutz, attorney-at-law and president Yadkin Railroad Co., Salisbury, N. C.; Julian S. Carr, president Blackwell's Durham Co-operative Tobacco Co., Durham, N. C.; J. J. Newman, M. E., president Dutch Creek Mining Co., Salisbury, N. C.

The prospectus of the company, which has just been issued, is brief and to the point. It presents the reports of distinguished experts on the ore and fuel supplies, the advantages of Greensboro for such an industry, and the basis on which the company is organized. Land in and around

Greensboro was extremely cheap prior to the announcement of the organization of this company, and the managers secured 2,500 acres adjoining the town at an average price of \$35 an acre. In view of the size and prosperity of Greensboro such figures seem almost absurd. With the building of the furnaces and other enterprises, this land alone ought in a very short time to be worth as much as the full capital of the company.

The MANUFACTURERS' RECORD has so persistently sought to attract attention to the great mineral resources of the Carolinas, that it takes especial pleasure in chronicling the full organization of this company. If managed with that energy and broad business ability that the names of the directors and officers justify the public in expecting, and which we feel sure will be done, this steel and iron enterprise ought not simply to result in building Greensboro up as a great industrial center, but to have a still wider effect in starting an advance movement for the utilization of the vast mineral resources of both North and South Carolina. Hence the MANUFACTURERS' RECORD hopes to see the company push its plans with vigor and lead the way for great industrial activity throughout these States.

THE Southern Iron Co. has commenced the construction of its steel plant at Chattanooga under the direction of Mr. B. Talbott, an English expert, who has been manager of large basic steel works in England. It is proposed to build two 20-ton basic Siemens' furnaces, and follow these as rapidly as possible with others until the full plant has a capacity of 3,000 tons of steel a week. With this great enterprise at Chattanooga for making basic steel, the \$1,000,000 plant at Middlesborough for the same purpose, and Bessemer furnaces to be built at Greensboro, N. C., and Johnson City, Tenn., the South has practically commenced its steel industry.

THE Baltimore MANUFACTURERS' RECORD in its last issue stated that the Virginia & North Carolina Construction Co. had closed a contract with the Roanoke & Southern Railroad Co. to build its road from Martinsville, Henry county, to this city. A Times reporter called on Hon H. S. Trout, president of the road, yesterday, and he stated that the report was a mistake; that the company has made a bid for the work, but the contract has not yet been awarded, but will be in a short while — Roanoke (Va.) Times.

The Times seeks to correct an error that was not made. The MANUFACTURERS' RECORD did not say that the contract had been closed, but that it was so reported. When we are without official confirmation of such matters, we merely give them as "reported" or "rumored."

C. S. MATTHIESSEN, Sumter, S. C., wants the address of manufacturers of small advertising signs.

#### Middlesborough News.

In the usual huge bundle that our exchange readers encounter every morning, there was found one day last week a long thick roll cased in a blue-tinted cover, which, when examined, proved to be the souvenir edition of the Middlesborough News. Of all the remarkable things thus far done in that remarkable town, this souvenir is entitled to precedence as a wonderful piece of enterprise. Bear in mind that nine months have scarcely passed since surveying parties drove their stakes in that Kentucky wilderness to indicate the metes and bounds of the intended settlement. Since then streets have been laid out, business blocks, churches, schoolhouses, hotels and residences built; the ground broken and the foundations laid for immense manufacturing industries; electric plants established; banks opened, and, in fact all the requirements and appliances of modern civilization been provided. The actual cost of all the buildings of this city has been \$1,221,900. The buildings under contract will cost \$256,425. All these things accomplished; a population of four thousand actually located and engaged in their respective avocations; works under way that will, when finished, require 7,900 additional wage-earners; mines in the vicinity to be opened that will employ 3,500 men—these are some of the many things that might be truthfully told of this young city that is building upon solid foundations and that has a brilliant future. Such a place could not get on without a live newspaper, and hence the Middlesborough News. Its souvenir edition recites briefly the history of the town's conception, birth and progress. It portrays the grand mountain and the picturesque valley scenery; it furnishes in detail all the particulars of buildings and enterprises with the terse accuracy of a government statistician, and finally, it prints the portraits of many of those citizens through whose energy, good judgment and wise enterprise these great things have been accomplished, and the greater enterprises entered upon that will shortly be completed. In this list we find New England, the West, the Middle States and the South well represented, while the central figure of the group is an Englishman, as are many of his associates. To the clear brain, the practical wisdom and the cool executive ability of Alexander A. Arthur, Kentucky is indebted for the conception and the execution of this stupendous enterprise. Mr. Arthur is now in England in the interest of Middlesborough, and has advised his home correspondents that he has just secured nearly \$5,000,000 additional capital to the \$18,000,000 already invested in the various enterprises of the new town. Success to Middlesborough! Success to its energetic citizens! Success to its capital and enterprising journal, the Middlesborough News!

#### Major Goldsmith B. West and His New Work.

Readers of the MANUFACTURERS' RECORD who have for the last eight or nine months followed the work of our Exploring Party as described from week to week by Major Goldsmith B. West, its chief, and who have found in his letters much to instruct and interest all who seek to know more of the great resources of the South, will regret to learn that he has resigned that position. It is with much regret that the MANUFACTURERS' RECORD parts with him. Prior to his acceptance of this position Major West had for years been a noted expert in the exploration of mineral and timber lands, his experience in this line ranging from the far South and West to Manitoba. For the last five or six years he has given his whole attention to the mineral resources of the central South, mainly Alabama. While heading this exploring party work he has found and made known to the public many places of great resources, where the advantages for industrial development warranted the location of extensive enterprises. He has told of the vast coking coal fields of Eastern Kentucky, of the iron ores and timber of that section, as well as of Western Carolina and East Tennessee. Having covered these States he turned back to Alabama, where, despite all the developments so far made, there are vast resources as yet scarcely dreamed of. While at work in that splendid mineral belt that extends from Cedar-town on beyond Anniston to Talladega, Major West found at Jacksonville, the county seat of Calhoun county, a combination of advantages that at once deeply impressed him. The careful investigation that he was making for the work of the Exploring Party opened up immense mineral wealth with every needed advantage of location for cheap iron making, abundance of good water, healthfulness, etc. So greatly has he been impressed with the combination of advantages of this place, making it, according to his views, the most desirable site for a large industrial town that he has finally decided to locate there and devote his energies to the development of the place as general manager of the land company organized for that purpose. Major West was proof against many tempting offers of similar positions that have come to him since his connection with the MANUFACTURERS' RECORD. Many of these offers were of the most liberal character, but it was not until the advantages of Jacksonville so greatly impressed him with the possibilities of the place that he was willing to relinquish his work for the MANUFACTURERS' RECORD and undertake the building of a great industrial center. No man in all the country has had a better chance to see almost every desirable town site

in the central South than Major West, and his selection of Jacksonville is a high compliment to that place. With his tireless energy, his wide business experience in the handling of large enterprises, his thorough knowledge of the South's mineral resources and his extensive acquaintance in Northern financial circles, the MANUFACTURERS' RECORD feels sure that Major West will make a phenomenal record of industrial progress for Jacksonville. Next to working for the MANUFACTURERS' RECORD, the best work that can be done is that of helping to build up the industrial interests of the South, and hence we can but extend our best wishes to the manager of the Jacksonville Land, Mining & Manufacturing Co.

HEADQUARTERS  
MANUFACTURERS' RECORD'S  
EXPLORING EXPEDITION,  
TREDGAR, ALA. (P. O. Jacksonville),  
March 14, 1890.

RICHARD H. EDMONDS,  
Editor-in-Chief, Manufacturers' Record,  
Baltimore, Md.

Dear Sir—The work of exploring the mineral regions of the South, which it has been my privilege to undertake and command under your auspices for the past eight months, has brought me in contact with a great many localities and districts offering attractions to capital and enterprise. It has been my fortune to become acquainted with opportunities in Kentucky, Tennessee and North Carolina that should have induced the most extensive and active intervention of outside capital and enterprise. I have gone the rounds with a single eye to bringing the several districts to the attention of the investing world. If our exploration has tended to call attention to the rich things that our Southern States possess, its object has been accomplished. If the several hundred letters per week that I receive are any criterion, it has been accomplished.

It is with a great deal of embarrassment and not a little regret that I am compelled to offer you my resignation as chief of the MANUFACTURERS' RECORD'S Expedition. After traveling over a good portion of the South, and having brought my staff into Alabama, it has been my fortune to find, at Tredgar, such a combination of mineral, industrial, climatic, agricultural and other conditions as to constitute what I consider to be the very best place in the South for the development of a great and successful industrial community.

It may be of interest to note that when first I went to Tredgar, I went with my mind predisposed against the place. Examination of its resources convinced me that it is the place above all the places I have seen in the South for the establishment of a grand manufacturing growth, backed by a now highly organized local agricultural and pastoral organization. After some hesitation, and having received your "content" to-day by telegraph, I have decided to sever my scientific relations with the MANUFACTURERS' RECORD, and to accept the position offered me here, of general manager of the Tredgar development, tendered me by the Alabama company and by the Eastern syndicate lately become interested in the movement.

I trust that the work I have begun may be continued under good auspices, and that the friends I have endeavored to make during the progress of the campaign may not forget me. With kind wishes and regards to you and the readers who have been with us through the mountains since July last, I am,  
Very truly yours,  
GOLDSMITH BERNARD WEST.

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## COTTON-SEED AND OLIVE OILS.

[Written for MANUFACTURERS' RECORD.]

No. 1.

Congress has under consideration this important question: What is pure food? It is not the first time by any means that the peoples' representatives at the national capital have had their attention directed to this subject, and it will not be the last, for as chemistry advances its discoveries year by year, so will there be an ever renewed and a never settled controversy between the old and the new in all that relates to the preparation on a large scale of human food staples.

Among the interesting and important side questions that have arisen during these Congressional investigations is one of more moment to the cotton-growing States than all the others. It is as to the dietetic value of cotton-seed oil. Is this oil really and truly entitled to recognition as a wholesome and therefore a desirable addition to the long catalogue of humanity's food? If it is, then the South will have a new source of demand for one of its agricultural products; and if cotton-seed oil is equal in all respects to that pressed from the olive, it will have another industry added to its ever lengthening list.

Early in 1888 two bills were before Congress, one in the House the other in the Senate. The committees of each body had numerous hearings, which were stenographically reported and were published in full in a volume of 418 pages. The purpose of the proposed legislation, as set forth in the House bill, was "to regulate the manufacture and sale of counterfeit or compound lard." The friends of the measure labored hard to show that compound lard was far inferior to the genuine hog product, and that if no restraints were put upon its manufacture and sale, it would drive the other out of the market and deprive the world of one of its pure food staples. The lard compound men met their opponents squarely on that issue, and endeavored to prove that the article they manufactured was in all respects a better food than that made and sold by their competitors.

One of the ingredients of the compound is cotton-seed oil, and the merits of this were discussed pro and con with much learning and ability.

Physicians and chemists were called in as experts by both sides, and a volume of testimony was taken, in the mass of which, while there is much worthless trash, there is also much of general interest and value. We shall draw upon this accumulated wealth of material hereafter.

Assuming (what we intend later to prove) that cotton-seed oil is the equal of olive oil for all purposes, the question arises as to the importance of the latter. What does it amount to as an article of commerce, and what is its consumption in this country? These questions are easily answered, for the annual reports of the world's imports and exports, prepared under the direction of the Chief of the Bureau of Statistics at Washington, give official figures that cannot be controverted, while at the National Department of State the bureau of consular reports has stores of valuable information.

Olive oil is produced mainly, but not exclusively, in those parts of Southern Europe bordering upon the Mediterranean basin. In the elaborate report made by Mr. Albert N. Hathaway, American consul at Nice, on "the olive and its culture," it is said that in that basin the olive tree "covers the slopes, valleys and hillside by millions. The general configuration of the coasts, the mountain barriers sheltering against northern winds, and the proximity of the sea itself, which serves as a vast reflector of the sunbeams, are explanatory of this result." It is computed that the total annual production of olive oil is somewhat more than 70,000,000 gallons, of

which Italy contributes 33,000,000 and France 7,000,000. Nearly all of that consumed in the United States comes from either the one or the other of those countries, although we get some of it at second-hand from British and other European merchants. The entire importation of olive oil from these countries for the fiscal year that ended June 30, 1889, was 893,338 gallons of an invoiced value of \$696,065. This would be equivalent to about 77 cents per gallon to be paid the European merchants. Adding to this freights, duties, costs of handling and jobbers' profits in this country, and the value of this oil, ready for distribution to the retail trade, was probably something more than a million dollars. Taking 70,000,000 gallons as the annual product of the world, and 77 cents as the average value per gallon, the world's crop of olive oil is worth annually \$53,900,000. A part of that which this country imports comes in bulk and has many uses in the industrial arts. The remainder is in bottles or flasks, and is the salad oil kept in stock by druggists and first-class family grocers. The first is a dense, high colored oil, the product of the early gathering, which occurs in November and December. The second, which is known commercially as the "olive oil of Nice," is a refined table oil of a straw color. This refining is a very simple filtering process. The filter consists of a series of boxes, one above another, with perforated bottoms. These are lined with layers of cotton about an inch thick. No chemicals are used.

No American is absolutely sure when he pays his 50 cents or more for a pint bottle or flask of imported salad oil that what he gets is the oil of the olive; for the cute foreign refiners and shippers of that article have found that there is so little difference, chemically, between it and the oil from cotton seed that they have for the past 8 or 10 years been good customers of the American oil producers and have provided against short crops and increasing demand for home and foreign consumption by blending the oils of the fruit and the seed, very much to their own advantage and without doing harm to anybody. In Italy this combining process had reached such dimensions that the government, fearing its effects upon the welfare of its olive orchard owners, caused stringent laws to be enacted for their protection. But, in spite of these, cotton-seed oil continues to be an export from this country to Italy, and, as Consul Hathaway naively states it: "That the adulteration of the olive oil, notwithstanding the severe penalties of law therefor is to some extent practiced, is undoubted. The fraud is accomplished by mixing with the genuine, the oil of the oleaginous seeds of cotton, sesamum and others. Immediate discovery of the imposition appears impossible, although much study has been given to the matter." (Consul Hathaway had not probably heard—at the time he wrote—of Becchis test, which was devised by a celebrated Italian chemist of that name for this very purpose, and which has been pronounced reliable by Prof. Wiley and other distinguished chemists). It is suggestive of possibilities in this connection to note that while Italy furnished this country 542,145 gallons of olive oil in the fiscal year that ended June 30, 1889, yet during the same period we supplied her with 65,250 gallons of cotton-seed oil, or somewhat more than ten per cent. of the number of gallons we took of her oil. As our exportation of that article to Italy has greatly decreased, it may be that the vigilance of the Italian authorities is interfering very decidedly with the old-time practices of the olive oil adulterators.

The value of the olive oil annually consumed in this country at present is about \$1,000,000. The value of that used annually in the world exceeds \$50,000,000. If cotton-seed oil is as good as olive for food and all other purposes, then it will be greatly for the interest of the South to give the widest publicity to these facts, and to begin and keep up a vigorous competition for this valuable trade.

## Pyrrites Ores in the Southern States.

With Reference to Their Economical Use for Sulphuric Acid Manufacture.

BY W. H. ADAMS, M. E., TOLERSVILLE, VA.

[For the MANUFACTURERS' RECORD.]

No. 6.

Southwesterly from the Louisa county deposits there is but one development on the mineral belt before reaching the James river, and that is in Buckingham county where a small outcrop of copper bearing pyrites has been uncovered during the general search for gold.

Taking all the conditions into account, it is not likely that any deposits will be found of workable value until the border counties of Virginia are reached.

Floyd, Carroll and Grayson counties are well known mineral producers, and are often quoted as containing enormous bodies of low grade copper ores in pyrite. While the ores are commonly classed as pyrites, it is unfortunately the fact that few localities only have disclosed bi-sulphides of iron, the bulk of the ores being pyrrhotite, the same as already mentioned as found in large quantities at the Elizabeth mine in Vermont. Chalcosite and chalcopyrite is found in greater or less amount in these pyrrhotites, and over a long stretch of country. It is within the possibilities therefore, that in the near future there will be introduced such economical methods of working this class of ores as to warrant the establishment of industries on a grand scale. All of the ore is silver bearing, and probably carries some gold, is remarkably free from arsenic, phosphorus, antimony, etc.; so that admitting the absence of sulphur in paying quantities there are yet other products which would be commercially valuable when worked under one system.

By reference to a map of Virginia, it will be seen that at present this mineral range from Floyd county, the northern boundary, to Ashe county, North Carolina, the southern end, is without direct railway communication. Were lines extended into this section, the distance from existing markets and the excessive freight rates in such mountainous regions would more than likely overcome the advantages which should accrue to so extensive deposits.

There is, however, no necessity for marketing these ores in the more northerly States, in opposition perhaps to other mines, as markets of equal importance, if not of greater extent, will shortly be opened within easy reach by rail, and the Southern States should properly draw their supplies from such sources as are found along their own mineral belts.

The Ore Knob mines, perhaps more favorably known than any other mine location of this Eastern belt, belongs to this group of deposits, and are but ten miles south of the Virginia State line.

The range lies 4,590 feet above sea level, as compared to 500 feet in Louisa county, yet the outcrop is the same gossan, or iron hat, and of the same mineral thickness. In shafting for the ores no dead work has to be done except to pass through this iron gossan, never more than fifty feet, and the walls being almost vertical the mining of the beds, which are from ten to fifteen feet thick, is attended with little expense in timbering, etc.

Mining operations have been conducted along this belt since 1857, and it is but lately that copper works of the most complete character were in going shape, and successful, until the price of ingot dropped below the twelve cent line.

These workings carried on for many years, demonstrated to a certainty that ores of this class, containing less than three per cent. of copper, cannot be handled to a profit with ingot at twelve cents.

Location may be said to mean everything in the way of success or failure, and it is true that transportation problems were among the main causes for failure in this particular case. Such drawbacks are, however, a direct stimulus for improving every detail of working, so that costs in every department are lessened to meet the heavy charges for transport to market. The great improvements in roasting, smelting and refining of copper, gold and silver have come from this necessity. In a later article I may have the opportunity of comparing the costs of copper production at this location with the present advanced practice where "bessemerizing" and electricity are the means employed. This region is mineralized to an extent seldom witnessed, and can only be compared to Ducktown, Tenn.

With the settlement of the transportation problems and the erection of metallurgical plants which will treat all the contained metals in these ores there promises to be a grand future for this district.

About 100 miles to the eastward are found the mines of the great gold belt, which extends from the Virginia line to Georgia.

This belt is from 5 to 20 miles wide and contains such well-known examples of large ore deposits as the Hoover, Gold Hill, Russell, Brewer and Haile mines, beside many others of lesser magnitude. They are too well known from frequent mention in geological reports, private descriptions and every-day knowledge of their special characteristics to need elaborate mention here, but the entire belt will be the scene of renewed activity at no very distant period when the values in sulphur, iron and precious metals are properly appreciated.

In a strictly mineral sense I class this belt of mineralized slates as among the grand natural wonders of this country, and no one can travel its length and breadth without marveling at the wealth in low grade ores, easy of access, enormous in amount.

That so much of anticipation and so little of realization has been the history of this section thus far is not owing to the lack of tonnage nor to varying values, but it may be said that causes which have brought disaster to enterprises along this mineral range are the same causes which have produced a like result in every prominent mining section of the world. Starting with the broad proposition that a close business management is as essential in mining as in every other enterprise and that there is a certain definite percentage of success and failure in all business, it can be proved, by examples exactly fitted to the conditions existing along this belt, that ton for ton, and working up all the products, there will be found a greater average profit than in Western ores.

I shall attempt to make this statement perfectly clear in every way in my later articles, basing my arguments on premises never yet brought forward with reference to these ores.

The Carroll and Ashe county deposits continue in a direct line into Georgia with Dahlonega as a center, thence to Alabama, entering through Cleburne county, where the well-known Stone Hill mines were opened many years ago.

The upturned mineral bearing slates form a continuous divide from Maryland to the Coosa river in Alabama, where they are entirely cut out and disappear. The waters generally flow to the north and south of this divide, that is, to the Ohio and Mississippi rivers in the one direction, and to the Atlantic ocean in the other.

Every creek, stream and gash along this divide is gold bearing to some extent, the eastern slope furnishing mostly free gold and the western slopes oftener showing pyrites at or near the surface.

The free gold developments are not necessary to mention in this article. The

pyrites, however, have received too little attention during all these years of prosperity to the South, and, so far as disclosed by the limited prospecting, have been so favorable a material for the manufacture of sulphuric acid that it is to be hoped a more liberal policy will be advanced and adopted from this time on which will bring them into the prominence they deserve.

The deposits near Dallas, in Paulding county, and the Tallapoosa mines in Haralson county, have already been mentioned by me.

They are mineralized zones of pyrite, with variable amounts of copper, iron, gold and silver found in the usual schistose slates, with a gangue which is easily separated by the commonest methods of mechanical concentration. Their mining, classification, treatment for extraction of the sulphur in acid manufacture and subsequent recovery of the contained metals, is one of the problems successfully worked out in the North on like ores during the past fifteen years, and now carried on in a large way near New York—250 tons daily.

The Stone Hill mines, in Alabama, consist of two large deposits of pyrrhotite; one of them proved twelve hundred feet in length.

The ores are intercalated in a micaceous schist of the Laurentian age, the surface altered into limonite by atmospheric agencies, and in the zone below the iron hat black oxide of copper has been found in large quantities, or more properly, a rich black sulphide containing about 30 per cent. copper.

The bed is a mixed slate and pyrites over 15 feet, and pyrrhotites for 15 to 20 feet greater width, the bulk of the ores from end to end carrying over 3 per cent. of copper, and except for the usual difficulties of location and crude methods of working which were adopted at the time this property was opened fifteen years ago, there would have been a generous profit to the owners.

To-day the location and the certainty of very large bodies of copper-bearing ores in this section must have a positive influence in determining new ventures, and sufficient capital, with the latest practice in metallurgy, must win for the fortunate owners such returns as will recompense them for the long period of idleness.

In 1866 extensive operations were carried on in Fannin county, Ga., the ores of this section resembling somewhat the slaty ores from the East Tennessee mine to the northward. They were worked from beds twenty feet wide over quite a length, but are now filled with water and debris to an extent which makes it impossible to judge of the real values. Concentrating and smelting operations were carried on for several years, as evidenced by the dumps, now overgrown and changed by atmospheric agencies.

Just over the boundary line of Tennessee, and in the southeast corner of that State the Bucktown mines are found in a basin perhaps twenty miles in diameter, seemingly the issue of and formed by the partings and dislocations of the main chain of the Alleghanies, which at this point almost abruptly end their direct course and part to the east and west.

As one descends from the towering peaks of the mountain chain to the eastward, this desolate valley, with its irregularly placed knobs of vari-colored rocks and ores denuded of all vegetation by the clouds of sulphurous gases which swept over it for years, all contour lines torn and broken as with convulsive throbs, with many mute evidences of man's attempts to wrest some share of the wealth from this giant in nature, presents a picture of mournful strength and lifelessness strangely impressive in every sense.

Rising 200 feet and upwards above the water level of the basin, with millions of tons of iron ores on the surface, these

deposits sink into insignificance all known mining sections with the single exception of the central portion of the Sierra Morena in Spain. Every evidence of a wonderful concentration of mineral wealth at this particular location can be gained by cursory examinations, as nothing on the surface, neither tree nor vegetation, obstructs the general observation or renders difficult the closest study.

The rocks have been fairly scoured by the action of sulphur gas; numerous openings are found above the water level; enormous dumps of low grade ores and waste matters are met with on every side, and the wrecks of the earlier attempts in metallurgy are yet present to serve as milestones in the pathway of American progress.

Students in geology, mineralogy and metallurgy cannot afford to miss the rare treat of a visit to this well-known, but generally inaccessible location, and especially so before the march of newer events shall have taken from it the charm of silence and the majesty of a repose seen in no other mining region. Three parallel zones of minerals are fully proved over several miles in the central portion of the basin.

The East Tennessee, London, Coheco and Hiwassee mines comprise the Western zone; the Isabella and Eureka range of deposits are in the center; the Polk county, Mary and Callaway mines are on the Eastern zone. Siliceous and slaty ores predominate on the Western zone, and this class of products require concentration by the usual methods employed in foreign countries where for more than 100 years they have been working out these problems.

The entire surface of the beds above the level of the streams are composed of limonites—altered by atmospheric agencies and the presence of percolating waters—the copper from which is found in pockets and masses generally, and is known by the term "black oxide."

This is easily soluble after contact with the air, and gives rise to the strong copper waters found in every mine, as well as overflowing into the streams near at hand. Immense amounts of cement copper have been made from these waters, and the actions are at all times going on underground, converting the sulphides of the ores into oxides, sulphates, etc., there being heat enough from this cause to be appreciable in winter, the snow melting from the surface in an exceedingly short time and before it is affected on any other part of the lands about.

Operations on a very extensive scale, covering a period of perhaps twenty years, have disclosed the general shape and extent of the lenticular beds in each of the mines named, and, with the single exception of the East Tennessee mine, there have been few developments at depths which prove values, the surface oxidized ores and higher grades of yellow sulphurets with black oxides of copper being alone worthy the exploitation when transportation charges were so excessive. With the system at present pursued in other mining districts modified to meet the particular necessities of each mine, this region should support a large and prosperous population for centuries with established industries solely needed by the contiguous agricultural and manufacturing centers.

THE owners of the McCarty steel process have their representative and expert in Southwest Virginia examining with a view to locating a plant at some favorable point in that section. Lynchburg, Salem and several other towns are each holding out large inducements to secure this enterprise. It is proposed to build a plant to produce 100 tons of steel a day, to be followed by other improvements. THE MANUFACTURERS' RECORD is informed that steel manufacturers in England are already endeavoring to secure the English patents to this process.

## AN ATTRACTIVE PLACE.

The Exploring Party Continues Its Work at Jacksonville (Tredegar), Ala.

MAJOR WEST GROWS ENTHUSIASTIC OVER MANGANESE, IRON ORES, JERSEY COWS, &c.,

And Then Decides To Locate Permanently at That Town.

HEADQUARTERS  
MANUFACTURERS' RECORD'S  
EXPLORING EXPEDITION,  
JACKSONVILLE (TREDEGAR), ALA.,  
March 13, 1890.

Dame Nature, after a few days of chill, by way of reminder that her Vernal Highness had not forgotten how to be cold upon occasion, has condescended to break into sunny smiles again, and everything is green and budding. Birds of gorgeous plumage flit from bough to bough, the magnolias will soon be in flower, and almost every tree is the home of a noisy, songful mocking bird. The lofty ridges all around have their soft, rolling contours touched with golden light, or contrasting shades as the scurrying clouds of the upper atmosphere pass northward to the regions of cold and rain. The creeks and brooks, fed from the mysterious, hidden mountain lakes of the neighborhood, are bustling about their business, just as they were on the date of the latest bulletin, and everything within the champaign or on the hills is in the same satisfactory state of health and development that obtained, when, a week ago, I closed a contribution with a long and interesting, but heavy series of mineral analyses. We will begin our exercises this week with something different. Different, because the last part of the latest installment was devoted to iron, while our opening this time will be on manganese. And, by the same token, there is little to write on the subject as yet, because the chemical end of the question has not been completed, although I hope it may be in time for the next issue of the MANUFACTURERS' RECORD. The matter considered in a general way, however, is far too important to wait for that, inasmuch as it will constitute a basis for a higher opinion of the value and variety of Tredegar and Jacksonville resources and advantages than would otherwise have obtained, perhaps.

The existence of beds of manganese ore, of greater or smaller importance, in Cleburne County, Alabama, has been recognized for several years, and some knowledge of beds not a great way from Tredegar has come to people interested in that direction. It has remained for the examinations of the past few weeks to locate an extensive bed of manganese ore of apparently high quality right at Tredegar. The special credit for this important find is due to Mr. J. H. Pratt, C. E., M. E., of Birmingham, who has been lending his valuable assistance to the expedition for a short time in the departments of geology and mineralogy. A large ore deposit within the Tredegar limits, which had been regarded as manganiferous iron ore before the advent of the MANUFACTURERS' RECORD party, was instantly identified by him as a bed of manganese, and he is now engaged in analyzing its contents. The discovery in question is another indication of the extreme richness of this particular district. Within a dozen miles of Anniston, it is hardly to be presumed that something of the truth about its resources was not known to the shrewd and able men who engineered the establishment and development of that now famous manufacturing center. Perhaps the knowledge may have been kept in stock privately for future use. Possibly it was regarded as likely to lead to a rival city too near for comfort; but it is certain that for some reason or other the astonishing mineral and

manufacturing possibilities of Jacksonville (Tredegar) and its surroundings, have not been advertised to the world of capital and enterprise in any adequate manner until the present time. In the rapid and heavily capitalized movement which is certain to follow the dissemination and appreciation of that knowledge, I am inclined to think that Anniston will take an early, an hearty, and a considerable share. Anniston has achieved such a degree of wealth and progress that instead of a neighboring development being a menace to her prosperity, it will tend to enhance it, and this is recognized in the push which Anniston is giving to the Blue Mountain Mineral Railway, which is intended to give Anniston an additional chance at the tonnages which the mines, furnaces and factories of Tredegar and Jacksonville will produce.

Aside from iron and steel productions it may be assumed that there will be a wide range of matters and things turned out in the vicinity. Reference has been made to the huge deposits of limestone and sandstone, many of which ought to be quarried extensively for building purposes, and should find markets all through Northern and Central Alabama at the least. There are extensive beds of kaoline of virgin whiteness, and free from all impurities—light, moreover, as the froth on a dish of syllabub. This is susceptible of manufacture into the finest porcelain, which not all Southern or American kaolins are, by any manner of means. If there be any place in the South where pottery works and firebrick works would do a land office business, on the basis of materials capable of sustaining competition, that place ought to be Tredegar. There may be other places on the continent with equal advantages in the matter of quality and variety of clays, but there are not many of them and still fewer where there are also the same proximity to large consuming markets and facilities for transportation.

Large deposits of beautiful marble exist within a stone's throw of the old town, and they are to all appearance as extensive as the most sanguine quarryman could desire. The marble is remotely like the Italian Sienna, but, to my notion, it is handsomer. It has a clear crystalline white ground with black veining; but the veining is more pronounced in color than in the European variety, and its form is much more accentuated, being not so regularly in the thin lines and tangled lines, so accurately imitated by means of skeins of silk in artificial marble, but traversing the blocks in splotchy waves, more like the manner of the North Carolina Sienna, only the latter is greyer in color of the ground. Unless I am much mistaken a wide market could be found for this marble throughout the South, and the country generally. It ought to go wherever Tennessee marbles do, and that, of course, is nearly everywhere.

Writing of building materials, it is worthy of note that Tredegar is "fixed" with one article, the absence of which has been a nuisance to many other industrial centers in Northern Alabama. I refer to building and molding sands. A short distance west of the town there is a bed of sand extending from the banks of Tallasahatchee creek for some distance, and which appears to have once formed the bed of a lake. It is coarse enough for both building and furnace purposes, and is free from the deleterious proportion of clay, and quite free from the vegetable associations that render even the clays imported by many towns in the State a very poor apology for what they really need. It seems to me that this sand is destined to successful competition with the sand brought to Birmingham from Montgomery, a considerably longer haul.

Four miles west of Jacksonville there is a deposit of lead ore, which was discovered three or four years before the Civil



War. During that struggle it was mined by the Confederate Government, and I am seriously afraid that some of our brave and honorable Grand Army friends are even now carrying samples of the product around with them, concealed in their legs and arms, and so on. Since the War the mines have not been worked. I will not at this time hazard an opinion as to whether they are profitably workable or not. Anyway the matter is worth the attention of people whose minds run in the direction of Galena. South of Jacksonville (Tredegar) there is an extensive bed of Barites, as to which Eastern experts have expressed a high opinion. This material, as every Sunday-school scholar is aware, is useful for mixture with white lead, to produce the paint of that color. It is now under investigation and may very likely amount to enough to justify the erection of a plant for its refining. Other mineral resources are reported at frequent intervals, but those only have been mentioned in these papers that we have had opportunity to get at and see in some shape. Perhaps this is not an improper place to make the not new observation that the mountains of Alabama are still vast mines of unknown wealth of many kinds—unknown because State parsimony has always withheld the means requisite for a proper and comprehensive geological and mineral survey of the Commonwealth. One would think that the practical education of the past decade should have been sufficient to teach the people that no sort of investment of public funds would so soon bring returns or add so much directly to the visible wealth, the taxable values of the State as a first-class, handsomely equipped geological survey. Pennsylvania, I believe, used to appropriate something like \$200,000 annually until her splendid survey was complete, and what a treasure that survey has been. New York was liberal in like manner. Kentucky has not shown one-half the liberality to her survey that the circumstances demanded, yet her comparative illiberality has been lavished generosity compared with the narrow-minded economy which characterizes Alabama in her treatment of this vital necessity. The wonder is that the State Geological staff, including such eminent geologists as Dr. Eugene Smith and Prof. McCauley, should have managed to do what they have for the cause, when the meagre pittance allowed them is considered. The State legislature is to meet next autumn, and it would be a good time for the Alabama papers to agitate the subject of adequate aid to the Geological survey. Surely the time must soon arrive when legislative wisdom will be no longer impenetrable to the necessity for such progressive action. With this slight jab at the solons of the capital, we will pass to some details of Tredegar development already accomplished.

It stands to reason that a great deal of finished lumber is necessary to the building of a town, and there is a fair supply in that line at Tredegar, although experienced lumber men tell me that there is a timber and lumber boom impending in the district which will be calculated to promote the establishment of a number of mills and planing mills in addition to those already on the ground. A short distance west of Tredegar on the tracks of the East & West road Messrs. Eastman & Silliman have a very fine and large lumber milling plant. Their mill is supplied with all the latest improvements in the line, and the daily capacity is stated at 50,000 feet. A large planing mill owned by the same firm stands near by. At the northern end of Tredegar Messrs. Heathcote & Dickinson have a 20,000 feet lumber mill, and there are others of less capacity in various directions. The lumber sawed and dressed is principally pine of superior quality, for which the environs of Tredegar for miles are noted.

Much good oak and cedar is also manufactured.

Two miles north of the old town of Jacksonville, and on the northern confines of Tredegar, is the tannery settlement of Germania, founded some years ago by General Burke. As I understand it, the mountain oak of this region is peculiarly well adapted to the uses of harness leather tanners. The establishment started by General Burke was a pronounced success from the first. After some years of profitable business the general sold out, on moving temporarily to Mobile. The original tannery was burned, but has been rebuilt, and I am informed is doing excellently. At its site, the damming of a spring branch has resulted in a fine pond of clear freestone water, deep and cold, and absolutely pure. It is full of carp and bass. I do not know of a finer spot anywhere in the South for the location of a paper mill. There is plenty of cotton-seed lint and other paper mill food to be had, while anywhere, either at Germania or anywhere else in the Tredegar district, the right kind and quality of water can be had without cost or trouble.

For the week past I have been in constant receipt of letters written by readers of the MANUFACTURERS' RECORD in all parts of the United States, asking what kinds of industry would find a proper and remunerative home in and around Tredegar and Jacksonville. The list of industrial enterprises that might be undertaken here with the best prospects is perhaps longer and covers a wider range of pursuits than I can think of at the present; but some of the principal and most apparently needed in the State and section are additional furnaces for the production of charcoal irons. The signal advantages of Tredegar for this industry have been noticed, and I understand that arrangements are under way for the establishment of one such plant, with a prospect that ground will be broken for it shortly. Still there is room and basis for several large furnaces. Then there is not a better place anywhere for a large rolling mill, of which class of establishment there are not nearly enough in this region to supply the growing demand. Foundries would undoubtedly pay well, and so would paper mills. One or two furniture factories producing fine and medium goods should succeed and more. An ice factory is already assured. Woodworking shops of all kinds would find open markets. Wagon shops, carriage factories, basket, cedar trunk, tool handle and all that line of shops are needed. Cotton mills would find the best conditions for location that I know of. The native and imported sheep within a tributary radius of Tredegar could supply enough material for the first year of a woolen mill, and after it had a fair start the market thus created would stimulate sheep husbandry to a high point of production. Several large tanneries would find assured prosperity. Planing mills and lumber mills would have too sure a thing to be worth discussing. As to cotton mills, above referred to, it is notable that there is a local supply, immediately available, of 6,000 bales—perhaps, a little more than that for the coming crop.

All the immediate foregoing is a fair setting for something that does not usually inhere in a mineral country, and that is the surrounding of an iron and steel district with an already developed and diversified agriculture.

It has been a matter of criticism that nearly all the Southern industrial developments have been made in regions almost void of agricultural resources. In the main this is not exactly true, and yet it is true that the farming lands adjacent to Birmingham, Anniston, Decatur, Sheffield and Chattanooga have not been of the character to give the best agricultural backing to the industrial features of the several movements. This fact need not be considered as an unfavorable commentary upon

the standing or prospects of the points mentioned. In most cases they were established at places which either had been regarded as sterile from all time, or else in neighborhoods where "old fields" only marked the tradition of a successful agriculture before or "endurin' of de wah." Thus, while the Jones Valley where Birmingham squatted, was a garden spot in ante bellum days, that important city has now to import most of its vegetables and fruits from the fertile lands around Mobile and New Orleans. The same is true of Bessemer, Decatur, Blocton, Tuscaloosa, Jasper, Sheffield and a dozen other towns that furnish markets which ought to make an hundred market gardeners apiece rich in two years. There is something to be said about the native disinclination to grow any crop that is a sure profit year by year; but, outside of that, the cotton fetich sticks to the horny-handed like grim death to the decomposed man and brother, even where cotton does not average a boll to an acre.

According to Captain Bunsby the moral of this thing would be in the ratio of the application of the same. "Whereby, why not! Can anybody say anything different! Avast then!" While Birmingham *et id genus omne*, is drawing its supplies of cabbages and carrots, onions and oyster plants, parsnips and potatoes, and other mercies, from the fruitful gulf ports, the country around Tredegar is just naturally bursting with farming advantages. Hereabouts the country has been never allowed to grow over with weeds; the crops have been better since than before the war. Cotton is not uncommon five or five and a-half feet high; barley is a splendid crop. Oats make good money for the farmer. Early vegetables will pay the cost per acre per year, when properly managed and marketed at Birmingham, Knoxville, and Anniston. Wheat grows abundantly, and used to be a leading crop. Grasses are beyond compare, in Alabama. In fact this is the grass country *par excellence* in the State. Grazing is a favorite crop with the native farmers, because it pays good returns upon a minimum of investment both of money and labor. I have sate in the saddle like a revised statute while flocks of William and other goats filed past me by the hour. There is a land of pure delight where lamb is just as apt to be kid unless you are acquainted with the butcher, and that is this place. I have noticed the same thing in Birmingham, with much enthusiasm. But it is not alone in the matter of butcher's meat that these Williamantic herds are valuable. Their hair is largely exported to Eastern markets for the purpose of making the Western oleomargarine appear like real Orange county butter, and there is no reason why this important article should not be kept at home and made into Angora lamb's wool, "all wool and a yard wide."

There is one branch of fruit culture that ought to delight the soul of an Arkansas farmer. I refer with respect to the plum crop. The native plum deserves cultivation, but does not get it. He grows wildly and profusely, and his end is the jar containing the humble plum jam. Yet, look at him in his bloom or regard him when he is ripe and you are thirsty, and the plumbago of a higher civilization is not to be compared with one of these. Since I have been traveling around these pleasant wilds the plum trees, with their thickets all in snowy bloom, have been constant reminders of the advent of spring and of the general subject of fruits, berries, etc. It would seem that Tredegar is rather certain to become a prominent point for grape culture. General Burke, who has had 20 years' experience on the ground as a viticulturist, and who makes a couple of barrels of excellent wine every year for his own use, regards the environment as especially adapted to vineyards. Giorgio White, an Italian vine-grower of long training, for

many years maintained a fine vineyard on the mountain back of Mountain View and a large orchard of apples, pears and peaches, mostly of Northern varieties. And herein lies one of the chief advantages of Tredegar for fruit culture generally. As a rule, it is a rather precarious business to attempt the raising of fruits peculiar to the North Temperate Zone at the South. Experience has been unfavorable to the effort in most places; but around here it has been amply demonstrated that all the Northern fruits will flourish and yield world without end. The moral of the tale is, that here is presented an unusual attraction to fruit culturists. The markets of the South, and the nearby markets of Knoxville, Chattanooga, Anniston, Birmingham, and so on, are just naturally howling for fresh fruit, and will pay prices that guaranty the producer handsome returns for his investment, skill and labor. Fruit men and intensive farmers East, North and West should take the opportunities here presented into consideration and write to the MANUFACTURERS' RECORD for more light on the subject.

To the weary, wrecked and morbid city palate, broken down under the regimen of watered, chemically-colored and innutritious milk (falsely so-called), and those horrible substitutes for pure butter, generally recognized under some such name as axlegreaserine, Tredegar and its vicinity should appeal with forty angel power force. This, among other things, is the happy and prosperous seat of highly organized, complete and adequately capitalized fancy dairy farming. Capt. Crook, of Jacksonville and Tredegar, has, in the neighborhood, one of the finest Jersey farms in the United States, and whether on that account or some other is not unlikely to receive the nomination for Governor of Alabama next summer. His farm includes about 800 acres of beautiful valley land, devoted to the production of superior, juicy grasses and such other dainties as the gentle, gazed-eyed little Jerseys most delight in. Everything that human ingenuity hath devised to make dairy farming perfect is to be found in connection with the establishment. Improved self-acting barns, stables, churns, silo pits, milk pans and all the rest of it are distributed according to the latest spring fashion plates in that line. The reader will please to understand that these remarks are only general, as the MANUFACTURERS' RECORD Expedition is rather stronger in the matter of geology and industrial topics than it is in matters agricultural and pastoral. Wherefore, let the cobbler stick to his last and the agriculturist, with dairyful aspirations, buy a ticket for Jacksonville, Ala., which the same is the railway station and postoffice for Tredegar. Capt. Crook has 80 or 90 Jersey cows, all registered, and with pedigrees as noble as any in the Jersey peerage. Last year his sales of butter from the farm netted over \$6,000, and this year that amount will likely be much increased. The fortunate guest at the handsome, elegantly-furnished Tredegar Inn can fairly wallow in Jersey butter, cream, milk, buttermilk and eggs. There are always plenty of turkeys, geese, ducks, chickens and wild fowl in season to wash the other things down. Tredegar is an industrial town where one does not have to depend upon the usual interior mountain diet of hog and greens and corn pone three times a day. Mr. Bondurant, of the East Tennessee, Virginia & Georgia service at Tredegar, also has a fine dairy farm, and grows Jersey and other butters, milk, etc., to suit the market. Captain Crook's remarkable success in Jersey farming is due to some extent to the fact that he employs high-priced professional herdsmen and dairymen, and never spares any expense to make his bovine friends healthy or comfortable. Each little Jersey lily of

his herd has her own particular box stall, sweetly clean and homelike. The name and number of each cow is inscribed over her door, and, when the day is past and gone, and evening shades appear, every one marches to her own particular den. Once in a while they get a little confused, and you can see them placidly roaming down the line and reading the inscriptions until the right ones are reached; then they gracefully wait in and retire, and, as soon as this is done to the general satisfaction, "the curfew tolls the knell of parting day," and Captain Crook smokes his evening pipe on the front porch. He puts up two hundred tons of ensilage every season.

The idea of Captain Crook smoking his pipe on the front porch, after putting his little Jersey cows to bed, brings up other bits of scenery. In this respect Tredegar is fortunate. Earlier in the fight it has been observed that the outlook from the higher ridges of the surrounding mountains afforded views of the country for thirty miles around, quite equal in point of picturesque beauty to anything to be found in Western North Carolina, the Cumberland mountains or elsewhere. At Mountain View one looks directly down upon the courthouse, normal college buildings and many spires of Jacksonville, while away to the southwest the smoke from Anniston's mills and furnaces curls heavenward, and to the west a long line of mist marks the meanderings of the Coosa river. There is a fine park road nearly up to Mountain View, and it is to be extended and improved by the Tredegar interest, for the benefit of visitors. Going up the mountain the road passes through a large pear and apple orchard, and the vineyard of the old Italian hitherto referred to. Before reaching that altitude your way winds around giant crags and bluffs of pure crystalline sandstone, and by gorges made by the noisy torrent that supplies the towns below with pure spring water. The pipes are laid right into the fountain head itself, which is carefully kept housed over by the Board of Public Works. This headwater is about 180 feet higher than the reservoir hill, and the latter is 80 feet higher than the town. Fire engines are quite unnecessary as the fire plug pressure is sufficient to play 50 feet over the highest steeple in the city.

While we are on springs, it is just as well to state that life is so short to tell all I know about them. Anywhere around Tredegar you could hardly throw a stone without hitting one. Once in Eastern Kentucky I heard an earnest circuit rider preach about the troubles that Moses visited upon Egypt. He said that Moses to punish Pharaoh sent "pestilences too numerous to mention." If Moses had had anything to do with this country—and he was unquestionably a hummer at the spring business—it would be easy to understand why the springs about Tredegar are "too numerous to mention." They are that for a fact.

There is an enormous one at Cedarhurst Park, which it is the intention of the company here to turn into a lake. There is a natural depression of the level at the point which with an open end dammed, will give a very neat lakelet of thirty or forty acres. Great groves of tall cedars and oaks that must have been trees when Columbus landed, form a natural and beautiful park, which the company is about to improve. Adjoining Cedarhurst Park is the company's farm, to which is attached a fine old time country mansion. Next year it is intended to turn the whole thing into a model farm, dairy, produce, garden truck and such things.

Five miles west of Tredegar are the mineral springs and camping grounds. Rising from the edge of a bold creek, where it flows through a dell of surpassing beauty, a series of mineral springs bubble up out of the sand. There are chalybeate, sulphur, iron and magnesia, lithia and other springs, strung along the bank for several hundred

feet. The sulphur water is the pleasantest to the taste of any I ever encountered. It is as clear as crystal. The other waters are of the best of their several kinds. This spot is a favorite picnic and camping ground, and jolly parties come here annually from neighboring and distant cities to disport themselves amid the cool shade of the noble forest trees and to fish and shoot and flirt. Those who feel a lingering long for sulphur water fill themselves full of it. Those whom the irony of fate has afflicted with a shortage of red corpuscles go in for chalybeate water—while others who come not for their health, neither for their Bright's disease, take it straight out of a bottle.

On the road from Tredegar toward the Mineral Springs there is an interesting freak of Nature, which will excite universal interest among tourists. For some distance a creek with volume enough to furnish power to several large mills rolls along just as if it intended to keep on rolling to the sea somewhere. Suddenly and without any warning or apology it sinks out of sight entirely and without the least disturbance. It does not pour, roaring down a hole in the ground. It just flows on up to the brink of a mossy bank, and there it stops flowing and lets itself leak out below. About a thousand yards beyond it breaks out again from a great pool so deep that no bottom has been found, and goes on as if nothing had happened. The pool is full of bass, which to many heathens is of more importance than the *lucius nature*—such is life.

Together with several hundred thousand MANUFACTURERS' RECORD's readers we have roamed over hill and dale, often swimming swollen streams and eating all sorts of stuff, good, bad and indifferent, in the pleasant wilds of Kentucky, Tennessee and North Carolina. Owing to a variety of causes, not necessary here to mention, progress has been slower than our early plans projected the work. We are in Alabama at last, and have made a pretty fair start at this end of the State. Here that monster of combined ambition and cupidity hath attacked the responsible head of the Expedition, and he is about to drop out of the command and the corps. I do not remember the name of the fabled warrior who started to attend the State University at Tuscaloosa, long before the foot of white man ever trod these virgin forests and hills; but it is said that on coming to the banks of a placid river he stuck his spear in the ground and hung his hat on the butt of the same, exclaiming "Alabama," which being interpreted is to say, "here we rest." As far as the writer of these truthful memoirs is concerned he is that kind of a warrior, and his spear is stuck in the soil and his hat is hung up for the remainder of a useful life in the town of Tredegar. When this resolution went into effect and became known to Henry, my faithful valet and companion throughout the campaign, he came to me and said: "Major, is you done, done, with me to?" I replied: "Henry, seeest thou a man diligent in his business, he shall stand by four kings; how would you like to be a hotel porter?" In a few days Henry will be resplendent in brass and blue and his manly breast will bear the decoration of chief porter of the Tredegar Inn.

It is with sighs of regret that I leave the completion of the interesting work of exploring the South to others. I have learned to love it, and the people it has brought me in close contact with. On the other hand I always threatened from the start to bolt the whole business just as soon as I should strike place, prospects, resources, advantages and so on, in the ideal combination I had in mind for years. I have found that ideal environment at Tredegar, where in future the latch string will be out for all old and any number of

new friends. Henry has just deposited my personal camp kit in the attic, where it will lie until some of the boys come along for a short summer mountain frolic. Plans and specifications for furnaces and rolling mills, cotton mills and paper mills, will fill the time that saunterings through this lovely land of ours have occupied, and, instead of hunting the wary magnetite in his rocky lair among North Carolina's peaks, the writer will be busy tempting native Bessemer and manganese ores from their downy beds at Tredegar, or bossing the grading of streets, or performing other light and amusing works of construction and development. Thus laboring, while the cold perspiration bespangles my brow, I must make my bow and say farewell to companions, and the kind readers of our narrative of exploration. Good-bye: Be good to yourselves!

GOLDSMITH BERNARD WEST.

### A Baltimore Banker Talks.

[Written for MANUFACTURERS' RECORD.]

Baltimore, beyond any city in the country, is conservative—very much so indeed. People elsewhere call it the "old foggy" city of the United States, and wonder "how, with its slow business ways, it manages to keep up its commerce and trade." Well, the truth might as well be told. Baltimore capitalists have been fearfully slow to recognize their city's great opportunities, and consequently, populous and wealthy as it is, it does not begin to be the place it might have been had its rich men appreciated the greatness of its advantages, and have applied their acknowledged intellectual and financial ability to their improvement. That Baltimore has more than held its own for a generation, and that it has gained in population, in manufactures, in commerce and in vested wealth is true, but little thanks are due to the majority of its very wealthy people for this steady growth and solid prosperity. Geographical situation, the energy and enterprise of outside capitalists, and finally, the persistent, well-sustained work of her merchants and tradesmen, have made Baltimore. Without these this city probably would have been like Newport, Rhode Island, a relic of a famous past and a delightful pleasure resort, instead of being the great seat of trade, of commerce and of manufacturing industries that it is.

Baltimore is the natural and ought to be the actual metropolis of the States east of the Alleghany mountains and south of Pennsylvania. Nature has given this city ample endowments that, wisely employed, would have made it second only to New York among the Atlantic seaports. Accumulated wealth is here. Business acumen and the broad experience that comes from years of active participation in commerce and trade are here. Climate, geographical position, transportation facilities, both by sea and land, we possess. Only one thing has our city lacked, and that was the prescience to understand and the courage to accept all the splendid opportunities for enterprise and capital which the South, the new, the developing, the richly-gifted South, which lies at our doors, has continually and most cordially invited us to improve. But we hope and believe that within the past two years a great change for the better has begun, and that it will go forward until Baltimore reaches the forefront as the greatest commercial and manufacturing city south of New York, for our bankers and moneyed men have begun to realize something of the great industrial and financial revolution in the South, and have commenced showing their sympathy for and their interest in it in the best practical way, by lending attentive ears to those business propositions from the South that commended themselves to their judgment, by loaning money on gilt-edged Southern securities, by making investments in large Southern enterprises,

and by going frequently upon extended Southern tours of observation.

Among the bankers who have been prominent in these respects is Richard D. Fisher, Esq., of the well known private banking house of Fisher & Shaw. This gentleman has but recently returned from Georgia and Florida, and is quite enthusiastic about what he saw and learned. Asked by a representative of the MANUFACTURERS' RECORD to give some account of his journey, Mr. Fisher said: "Business took me to Tampa, Fla., and its vicinity. At Tampa Point I saw the docks, seven-eighths of a mile long, that the Plants Line has built to meet the demands of the steamship traffic with Mobile and Cuba. These steamers used to run to Tampa, nine miles up the bay, but there was not water enough at all times for their needs, while off the point, at the end of the long dock, they are sure of 22 feet. I found there also warehouses, steamship berths and coal docks, all built on piles; also a splendid hotel, well kept and capable of accommodating many guests. This is a large and safe harbor. The South Florida Railroad has done all this work. It is a grand enterprise and well executed. I think that here is to be one of the great commercial ports of the South. It has already direct and regular communication with Havana and Mobile. From the latter city it will receive its coal supply. It will be the American port for trade with British Honduras. I was very much interested in the Tampa water works, which are supplied by a natural spring which discharges 3,250,000 gallons a day, and is unfailing at all seasons. The town proper is doing an immense tobacco business. Twenty million cigars, of the cash value of \$1,300,000, were made there last year. About half that great sum was paid out in wages. Fishing and lumbering are the other chief industries, but they are of much less relative importance. In 1886 the customs receipts at this port were but \$17,000, but for the year that will end June 30th, 1890, they will have amounted to about \$240,000. The Tampa Bay Hotel, to which I alluded, is 511 feet long, from 50 to 55 feet wide, from four to six stories high, and is absolutely fire-proof. It can accommodate more than 500 guests.

I was much pleased with the country about Ocala, which is rich in orange groves, in fruits of many kinds, and in kitchen gardens. It is also the center of the great phosphate discoveries that have recently been made.

I also spent some days at Brunswick, Ga., a lively and growing town. It has the great natural advantages of a very deep harbor without any river pouring in its alluvial deposits, and of a magnificent water front. It has competing railroad lines connecting it with the entire interior. In 1880 it had less than 3,000 population, while now there are more than 12,000 permanent residents. The taxable basis has increased from \$1,250,000 to \$6,000,000, and the banking capital, which was nothing in 1884, is now \$550,000. Since 1884 naval store shipments have advanced from nothing to over a million dollars in 1889. Of the cotton crop of 1884-85, Brunswick handled but 4,000 bales, but of that of 1889 the transactions amount to 200,000 bales.

The increase in the lumber trade has been enormous, but I have not the necessary data to give you. I can only say that the value of foreign exports of all kinds was in 1888, \$4,617,903, and in 1889, \$8,200,273, and that all the indications are that at the end of this year there will be a very much greater increase.

Brunswick has a fine supply of perfectly pure water, which was obtained by boring an artesian well to a depth of five hundred feet. This gives the city a million gallons a day. The use of this water by its citizens has dispelled the malaria that once prevailed to some extent.



Savannah is also a growing city, and has become a great resort for winter tourists from the North. The De Soto Hotel there is a splendid establishment. We have nothing equaling it in Baltimore. There are artesian wells also in Savannah that have had a marked and most beneficial effect upon the health of its citizens.

In a broad sense, I may say that I believe in the progress of the South as portrayed weekly in the MANUFACTURERS' RECORD. My personal observations, though confined to a comparatively limited area, are in conformity with its statements. I think that the best field for judicious investments and profitable returns is at the South."

## GLASCOW, VA.

Last week's MANUFACTURERS' RECORD, under the heading "Virginia's Latest Success," contained what was intended to give the reader a glimpse of the extraordinary city site on which Glasgow is being built. This location is one which has so many attractions that it is difficult to decide where to begin, and infinitely more difficult to make up one's mind, when writing of it, when to end. The great Craig county mineral region is one of the new city's resources, the Flat Top coal field is another, the water-power of the James river and the water-power of the North river, which come together here, is still another, and the mountains of iron ore in sight of the town is still another. And yet these are but a few of the big things that will be developed for the prosperity and growth of Glasgow.

On the opening days there were on the ground men from all over the Union—and this, too, in spite of the scanty advertising the location had so far had. The fact is, up to that time all the work had been in the nature of well-directed preparation. The management had been laying substantial foundations, and it was not a part of their plan to have lots "go like hot cakes" at fancy prices. On the contrary, when the sale of lots began, Major Miles Martin, the far-seeing executive man of the enterprise, made a rather "bearish" talk to the men who had come there to buy. He told them that there would be other days besides that day and that there would be other lots offered besides the lots then bulletined. That no man could tell just where the business center of the town would be. That he himself didn't know. Therefore it would be well to buy here and there, without reference to temporary fancy. That the company's policy would be to avoid favoritism and to contribute to the enhancement of the entire list of lots in due season. That the scheme was not a speculative one, starting off with a great flourish of trumpets; but that on the contrary time alone could be safely relied upon to create genuine values. Finally he advised intending buyers to purchase for investment and not for speculation.

The prices placed by the company were very moderate, as was shown by the fact that many duplicate bids were made for scores of lots. The only way to decide which of several choosers should get the lot he wanted was to auction off all the lots picked out by more than one. To illustrate: Let us say that the company on its schedule had priced lot 50, block 50 at \$500. This was open to all. Now suppose, as was the actual result in many cases, that 50 men wanted that particular lot. Then the only way left open was to auction it off, allowing only those to bid who had put in propositions to purchase it at the original schedule price.

I am inclined to believe that many of those present forgot that there was no pre-emption privilege; for almost every man that picked out, let us say as before,

lot 50, block 50, seemed to imagine that his offer should have been considered and accepted to the exclusion of every other man whose fancy ran in the same direction. And so for a few hours there was a certain kind of "kicking," which, of course, so soon as the equities of the case were duly explained, promptly subsided. However, in some of the reports of the sale, the plan of the company was criticised.

I am satisfied had the company thrown open its entire holdings and advertised the sale more widely, and used only the auction plan, that it could have sold every lot in the town-site at an average of 100 per cent. exceeding the then schedule prices. It was wise, however, not to do this; for so soon as the industrial plans of the company shall be materialized the value of lots will certainly be quadrupled, if not more. The consequence will be that instead of all the profits to result from the multiplication of pay-rolls going into the pockets of outside individuals, who would have promptly pocketed these profits and left the town to die a natural death, the company will have many hundreds of thousands of dollars to put into paying industries. And so, while eager speculators may, for a time, have been disappointed, the city of Glasgow will go straight ahead, as it ought to go.

To make my meaning clear in saying it was wise in the Rockbridge Co. (which owns Glasgow) to limit the number of lots offered, let me cite a case where a certain company disposed of its entire holdings in a single day. What was the consequence? Only a comparatively small amount of money was put into that company's treasury, and within three years it couldn't raise cash enough to build a blacksmith shop. Now, the Rockbridge Co. by retaining the bulk of its lots and selling only a fraction of the whole, will be in a position, as it may need cash to build industries, to have other sales; and each succeeding sale will result in a well-filled treasury. I have said thus much on this score because there was considerable disgruntlement among buyers because there were not enough lots offered to go round. And here another question arises. How were the managers of Glasgow to know how many people were coming? How were they to know that men from Pennsylvania, New Hampshire, Michigan and New York (not to mention half a dozen Southern States) would be on hand eager to invest?

It is a fact, however, which I can bear witness to, and which the books of the company show, that purchasers were present from all the States first named, and that even slow old Kentucky, under the advice of that most famous of Southern geologists, John R. Procter, sent \$50,000 to put into Glasgow lots.

Speaking of Prof. Procter, it is a feather in the cap of this magnificent Virginia enterprise that such an expert should have so high an opinion of it. He told the writer while at Glasgow that, in his opinion, there was iron ore enough in the adjacent Glenwood property (just across James river) to run a dozen furnaces for half a century, and perhaps much longer.

The deposits of rich brown ore on this property are often 60 feet thick, and the property embraces some 10,000 acres. In addition to this, however, the Rockbridge Co. owns superb mineral properties in the Craig district, which will soon be made available for furnaces by means of the Craig Creek Railroad, now being constructed from Eagle Mountain, on the Chesapeake & Ohio, about 20 miles above Glasgow.

A big hotel is being built at Glasgow, water works from a free-stone spring are

under way, and other indispensable features of a model city are in course of construction. The town was laid out by skillful engineers under the supervision of George E. Waring, Jr., of Newport, R. I., with special reference to sanitary drainage. The water supply will be a spring 500 feet above the average level of the town, from which flows water enough for a city of half a million people—so I am told by Major Miles M. Martin, the company's efficient general manager. I am not sure, however, that it is enough for that many people, but I have seen the big gushing creek this single spring sends forth, which looks almost equal to the volume of Croton river, which for years supplied New York city.

The policy of the Rockbridge Co. will be to encourage the location of industries. Major Martin, however, has his eyes and ears wide open to those adventurers—I should rather say frauds—who are "working" Southern towns with wild-cat schemes. He will exercise the most severe discretion in dealing with all parties wanting bonuses. On the other hand he will give the most liberal inducements to bona fide enterprises. And I know that genuine locators of good industries will think all the more of Glasgow.

The fact that General Fitzhugh Lee is president of the Rockbridge Co. will create a confidence in all its enterprises the outcome of which will be success beyond all anticipation. Genl. Lee gives the company not only the prestige of a mighty name, but the assurance of clean-handed, honest, broad-minded management. The vice-president is Mr. Wm. A. Anderson, of Lexington, Va. In all my travels I have met few men toward whom my heart warms more than to this gifted son of a Virginia family scarce second to that of the man who is president of this mighty corporation. Major Martin is likewise a Virginian, though he has had experience in other States; and is therefore all the more admirably fitted for the work he has in hand.

In conclusion I will reiterate my earnest appeal to all those Virginians who have gone to the West and to the North, and to the bleak Northwest, to come back to the grand old State and participate in her rejuvenation. Bigger fortunes, and more lasting fortunes, will be made during the next 10 years in Virginia than have ever been made in Kansas City, Minneapolis or St. Paul. Come back, sons of Virginia, and bring your money and your energy and your courage, and your experience and your business capacity, and help unearth the boundless resources of a State that is destined to be developed again into what it was in the days when American independence was being won,—in the days of Washington, Jefferson and Madison,—but with this difference that Virginia's nineteenth century and twentieth century pre-eminence will not be based on things transitory but on things absolutely inexhaustible.

THOMAS P. GRASTY.

## Bluffton Joins the Procession.

[Special Dispatch to MANUFACTURERS' RECORD.]  
BLUFFTON, ALA., March 17, 1890.

A \$200,000 rolling mill is assured for Bluffton and stock all provided for, and \$125,000 has been paid in. A bank has been organized, capital of \$50,000, for which a \$5,000 stone bank building is provided; erection to commence in 10 days. Two brick manufacturing plants of 25 and 40 horse-power capacity respectively to be located; the machinery now in transit. A planing mill, supplied with latest improved machinery, now in course of erection; to be completed in 2 weeks. Other industries and improvements to follow that will lead to rapid development of company's property. Am authorized to state that a half million enterprise just located, nature of which to be made known next week.

RIDICULOUS! That is the only fitting word to apply to a dispatch which was wired from Pittsburgh March 17th, and went all through the North and West, some of the night editors who received it calling special attention to it by a displayed head-line much like the following: "Southern Pig Iron Unfit for Steel." The following is the dispatch:

Mr. Leishman, of Carnegie & Co., says that the 2,000 tons of Bessemer pig iron ordered by the firm from Alabama proves to be unfit for the making of steel. It contains too much phosphorus and sulphur. The firm will order no more Southern iron, and Mr. Leishman says the Southern ores will never be shipped to this district on any extensive scale.

The Southern iron district extends from West Virginia to Alabama. In Texas also are vast ore beds. Within those two districts east and west of the Mississippi every kind of iron ore known to metallurgists is found. Because Messrs. Carnegie & Co., in the course of their manifold experiments, found some Alabama pig iron not adapted to steel making, proves nothing except the enterprise of that great firm.

ONE of our weekly exchanges from Georgia advertises Northern seed oats, timothy, clover, blue grass and orchard-grass seed for sale. The MANUFACTURERS' RECORD does not object to the fact that such seeds are advertised, but it does object to the fact that they come from the North or from anywhere else except the South. Experience has, we believe, demonstrated the fact that, all things being equal, Southern-raised seeds and plants grow better in the South than those raised elsewhere. With its abundance of rich soil and its fine climate, the South should supply the home market with such things, not alone for the advancement of the agricultural interests, but for economy's sake. Farmers should use the judgment that men in business do, the better the goods the better prices they bring. Southern farmers can raise their own grass and other seeds for most of their supply just as easily as farmers in the North can raise theirs and ship them South.

HENDERSON is one of the live towns of North Carolina, and the Gold Leaf, a weekly paper published there, is one of the brightest and best of our exchanges that come from that good, old and wonderfully slow State. In Henderson there are several very enterprising and sagacious men, chief among whom is Col. W. H. S. Burgwyn, lawyer, banker, capitalist, and a most estimable citizen also. In last week's issue of the Gold Leaf we read of the elaborate "house warming" of a new plug tobacco enterprise at Henderson, at the head of which is Col. Burgwyn. We congratulate Henderson that it has a citizen so worthy of its esteem, and a newspaper, the Gold Leaf, that so perfectly represents the best ambitions and aspirations of the town. That this bright young borough of North Carolina's "golden tobacco belt" may continue to prosper, and that its foremost capitalist and its live editor may each be well rewarded for their enterprise, is the wish and hope of the MANUFACTURERS' RECORD.

# TREDEGAR

AND

## JACKSONVILLE, ALA.

✱ The Devonshire of the South. ✱

Richest in Resources of Soil, Climate, Water, Timber and Minerals, of all the Industrial Places in this Section.

✱ AMPLE RAILWAY FACILITIES. ✱

A Favorite Summer and Winter Resort. Beautiful Scenery. Excellent Fishing & Shooting.

SUPERIOR ACCOMMODATIONS AT THE NEW AND CHARMING TREDEGAR INN, Conducted by the Company.

**SULPHUR, CHALYBEATE, LITHIA and MAGNESIAN SPRINGS.**

At no other Point in the South are like Advantages, Opportunities and Inducements to be Found for the Establishment of

Charcoal Iron Furnaces,  
Coke Iron Furnaces,  
Rolling Mills,  
Foundries and Machine Shops,  
Paper Mills,  
Furniture Factories,  
Wagon Factories,  
Fire-brick Works,

Potteries,  
Limestone Quarries,  
Sandstone Quarries,  
Additional Lumber Mills,  
Additional Planing Mills,  
Additional Tanneries,  
Cotton Mills,  
Woolen Mills.

Tredegar and Jacksonville are on the East Tennessee, Virginia & Georgia, the East and West of Alabama and the Blue Mountain Mineral Railways. Ten miles from Anniston, four hours from Birmingham, six hours from Knoxville.

**GREAT OPENING FOR A VARIETY OF SMALL INDUSTRIES.**

For Full Particulars Address

**J. W. BURKE, Pres't, or GOLDSMITH BERNARD WEST, Gen. Man'gr.**  
Jacksonville, Calhoun Co., Alabama.



# TO MANUFACTURERS.

For the Next Sixty Days

## BASIC CITY, VA.

Whose Lots and Lands Completely Encompass

The Crossing of the Two Great Coal Carrying Lines of Virginia,

Viz: THE CHESAPEAKE & OHIO RAILROAD, and THE SHENANDOAH VALLEY RAILROAD.

Will offer EXTRAORDINARY INDUCEMENTS for the removal and Establishment of

## MANUFACTURING PLANTS.

THE PLAN OF THE

Basic City Mining, Manufacturing & Land Company

is to secure Substantial Industries before placing a single one of its lots on sale, and therefore during the NEXT SIXTY DAYS the Company will Offer to Manufacturers Greater Inducements than any competing town in the South or West.

FOR PARTICULARS AS TO THE SPECIAL ADVANTAGES OF BASIC CITY ADDRESS

SAMUEL FORRER, President and General Manager, BASIC CITY, VA.

Information as to the financial standing and resources of this Company may be had by addressing the AUGUSTA NATIONAL BANK or the NATIONAL VALLEY BANK, of Staunton, Va.

# PIEDMONT, —————→ ←————— ALABAMA.

• Delaware's Southern City. •

IN THE VERY HEART OF BROWN IRON-ORE DISTRICT.

Full Paid Capital of the Piedmont Land & Improvement Co. \$1,250,000

Large Portion of which will be Employed Establishing Great Industrial Plants.

The following enterprises and industries are guaranteed by the PIEDMONT LAND AND IMPROVEMENT COMPANY, all of which are now well under way:

A 50-ton Charcoal Iron Furnace.

A large iron Rolling Mill.

A Car Wheel Works.

Three Saw Mills.

An excellent system of Water Works.

The best system of Electric Lights.

Graded and Macadamized Streets.

A \$35,000 Hotel Building.

A Bank Building, (for Bank of Piedmont),  
the finest in Northern Alabama.

The Piedmont Land and Improvement Company have also closed contracts with two Eastern capitalists, who will at once erect forty dwelling houses, to cost not less than \$1,400 each, which will represent, when completed, together with the ground covered, an investment of over \$100,000.

These will be followed in the near future by the following, negotiations for several of which are now nearly completed:

Two 100-ton Coke Iron Furnaces

A Basic Steel Plant.

A Large Planing Mill.

A Carriage and Wagon Factory.

A Passenger Car Works.

A Sewer Pipe Works.

A Brick Works, and several other industries.

Such are a few of the many advantages that Piedmont offers to the manufacturer and to the investor, who are cordially invited to come and examine for themselves.

FOR ADDITIONAL INFORMATION ADDRESS

**Piedmont Land & Improvement Co.**  
**PIEDMONT, ALA.**



# 200,000,000 TONS OF BROWN IRON ORE

IN SIGHT AT

## BLUFFTON,

HIGH, HEALTHY AND HONEST.

GOOD PEOPLE AND GOOD WATER.

Cherokee County, Ala.

LOCATED UPON THE ALABAMA DIVISION OF THE EAST TENN. VA. &amp; GA. RY. SYSTEM.

It is impossible to describe by words the enormous quantity of iron ore that is in sight on the land of this company. Said a prominent railroad man of the South: "I could not believe your statement as to the quantity, (200,000,000 tons in sight), but now that I have seen your ore deposits, I wonder how you put so low an estimate on them."

Prof. Robinson, of Bowdoin College, Brunswick, Maine, says: "I found at Bluffton iron ore in abundance, partly in solid cliff masses containing hundreds of thousands of tons, and partly in the form of gravel and small boulders lying in great banks similar in appearance to the gravel banks of New England. Whether there was as much of the gravel as of the bluff ore I could hardly judge, but it was very clear that the quantities of both were simply enormous."

G. S. Patterson, mining engineer, of Anniston, Ala., reports: "The amount of ore in sight was certainly beyond my expectation, though I was prepared to find a large deposit. The Bluff, as it is called, is a solid mass of ore on the side of a mountain, easily approachable, and can be mined cheaper than at any point in Alabama or Georgia, with which I am familiar."

Mr. Wm. H. Edmonds, of the Manufacturers' Record, says: "As to

the quantity of ore here, I don't suppose that all the furnaces in Alabama could use it up in a lifetime."—See Manufacturers' Record May 18, 1889 article entitled "BILL ARP AND BLUFFTON."

**Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.**

With high grade ores, analyzing over 50 per cent. metallic iron, delivered at the furnace at the above-named price, is there any possibility of such a place as Bluffton not being able to produce iron at figures which will yield a profit despite the duldest of dull times?

Prof. J. H. Pratt, of Birmingham, Ala., reports on samples selected from our property by Mr. Edmonds and Mr. G. S. Patterson as follows:

The sample of brown iron ore, marked "Bluff Ore," contains—	The sample marked "Gravel Ore" contains—
Metallic iron, - - 52.37 per cent.	Metallic iron, - - 53.23 per cent.
Phosphorus, - - - 0.782 "	Phosphorus, - - - 0.931 "
Silica, - - - 14.60 "	Silica, - - - 6.25 "
Water combined, - 8.10 "	Water combined, - 10.20 "
Moisture at 100° C - 2.50 "	Moisture at 100° C - 1.68 "

### LARGEST DEPOSIT OF IRON

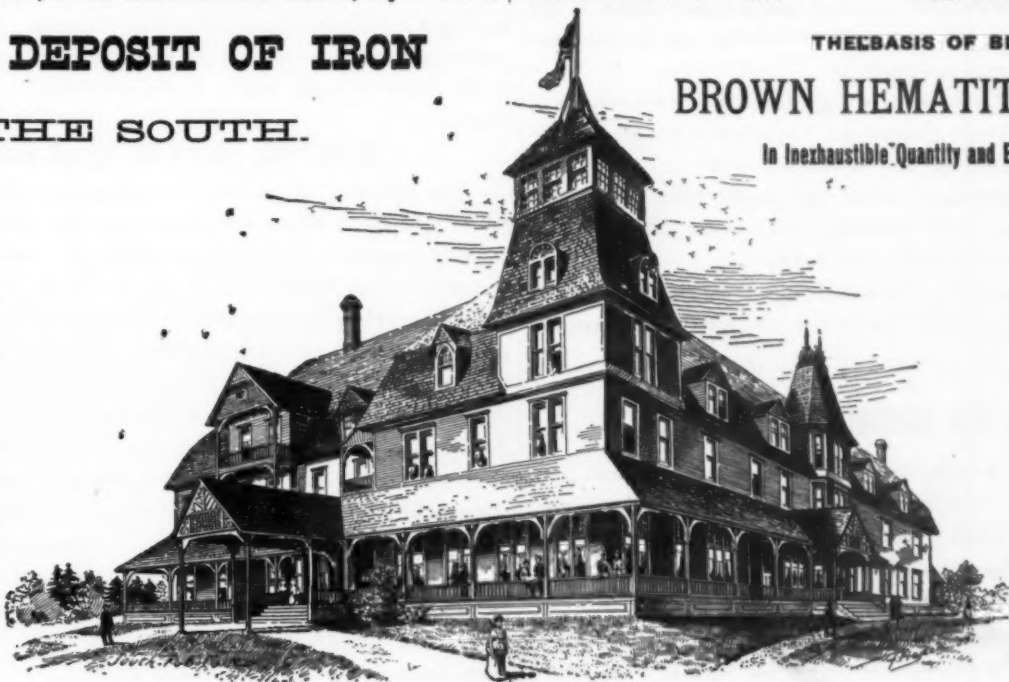
IN THE SOUTH.

THE BASIS OF BLUFFTON:

### BROWN HEMATITE IRON ORE

In inexhaustible Quantity and Excellent Quality.

Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.



THE SIGNAL—NOW OPEN AT BLUFFTON.

Located on the Selma Division of the East Tennessee, Virginia & Georgia Railway, midway between Rome and Anniston, and only two miles and three-fourths from the East & West Railroad, of Alabama.

## FREE MANUFACTURING SITES.

### Rich Manganese Deposit.

There are several very large and rich outcroppings of Manganese Ore on the company's property, and the deposits have been examined by experts and pronounced exceedingly valuable. Specimens have been sent to various steel works in Pennsylvania, and the result is a large inquiry about the ore. From present development can be seen several hundred tons of this ore. There is always a ready market for manganese, and it is quoted at \$18 to 20 per ton in Pittsburgh and Chicago. More extensive work will be done on these deposits within a very short time, as the banks are easily accessible. Shipments will soon be made.

### OTHER RESOURCES.

Fire Clay and Brick Clay—Yellow Ochre.

On this property are large deposits of fire clay, which has stood the highest test. Shipments have been made to Chattanooga, Tenn., and it is pronounced a superior quality. A fire brick works could be established here that would prove extremely profitable.

In brick clay there is an inexhaustible quantity, with an abundance of water running through the clay land. Brick manufacturing here would pay handsomely, and the company would lease the clay beds for a term of years at a very low royalty.

The four charcoal pig-iron furnaces surrounding this property are nearly as valuable to this place as if they were located on the land of the Bluffton Company. The pig iron manufactured by them could be bought and utilized here for every kind of manufactured iron. They are so near that freight on the raw material would be comparatively nothing. Surrounding us, as these furnaces do, it makes Bluffton a centre.

SEND FOR PROSPECTUS. ADDRESS

## Bluffton Land, Ore & Furnace Company, Bluffton, Ala.

# FACTS ABOUT FLORENCE.

## LOCATION.

Florence is in North Alabama, near the Tennessee line, on the Tennessee river, which is navigable here for large steamers. It is on the Memphis & Charleston Railroad, and the Nashville & Florence branch of the Louisville & Nashville Road.

## AGGREGATE OF ADVANTAGES.

There are many places in the South possessing the advantages of a good climate, healthfulness, natural resources and manufacturing capabilities more happily combined and in a higher degree than can be found in any other part of the country. It is believed, however, that at no point in the South, and hence nowhere in America can there be found an aggregate of so many unsurpassed advantages and attractions as exist at Florence.

## IRON AND COTTON MANUFACTURING.

Florence can make iron as cheaply as any place in Alabama. It has facilities for the manufacture also of cotton goods equal to those of any other place. Anything that uses wood as a raw material can be made here at as low a cost as anywhere in the South.

Thousands of acres of iron ore of a high grade within a few miles of Florence are owned by Florence companies. Limestone is quarried within the town limits. There is enough of it to last for ages.

Cotton mills would get a large part of their supply from the country around Florence. Cypress creek furnishes water power and mill sites enough to make Florence the Lowell of the South.

North of Florence, and up the Tennessee river, there are large areas of timber, embracing a wide variety of hardwoods—forests that the axe has never touched.

## COMMERCIAL AND AGRICULTURAL FACILITIES.

Besides its industrial possibilities, Florence is a point of great commercial importance, and is becoming the center of an extensive mercantile business. It has the advantage of both rail and river transportation and of competing railroads. Several additional railroads are now under construction to open up new trade connections to Florence.

Florence is surrounded by a wide extent of fertile and productive country, as well adapted for farming, stock raising, fruit growing, truck farming, dairying, &c., as any in the world. Further, it has a climate that is delightful the year round. Its health record cannot be surpassed. It has no malaria. In fact, people who live here enjoy a remarkable exemption from ailments of every sort. It has an abundance of the purest water.

## BEAUTY OF LOCATION.

For beauty of location Florence is without a peer. The Tennessee river at this point is as romantic and beautiful as the Hudson. The rolling character of the country, the slopes and hills and alternating valleys furnish a picture to charm an artist's eye. The lovely Cypress creek, a deep and rapid stream emptying into the river just below the town, presents at every turn in its tortuous course a scene of entrancing beauty. The views from some of the higher hills are as fair as the eyes of man ever rested on.

Limited space allows here only the briefest summary of a very few of the more important facts about Florence. For more detailed information write to either one of the following companies. Or better still, come down and see for yourself. Investigation is all that Florence asks or needs.

## GROWTH.

Florence is making more rapid progress, proportionately, than any other town in America. This is a strong statement but it is true. And its growth is on a solid and permanent basis.

## SOLID GROWTH.

Florence is not undergoing any wild real estate boom. Its managers are not seeking to advance real estate prices. It is not their plan to get a quick return for the money they have invested, by the rapid sale of lots at unnatural prices. It is their aim to first build up a town, to locate factories and secure a permanent population, when land will have an actual value and sell at prices from which there will not be a subsequent disastrous reaction. At present real estate is much lower in price than in any other town in the South that has made half the progress Florence has made.

## THIRTY NEW ENTERPRISES.

Within the last 12 or 15 months over 30 new industrial enterprises have been located at Florence, with an aggregate cash capital of about \$5,000,000. This remarkable growth is the result of efforts to induce people to simply investigate the attractions of Florence. Investigation and comparison with other places, on the part of any who are looking for a place in the South to locate, will in nearly every case result in the selection of Florence.

## INDUSTRIAL ENTERPRISES IN OPERATION.

The following are some of the industries in Florence. Some of these are in operation; others are nearly ready for work and others have but recently commenced work on their buildings: One of the largest and best furnaces in the United States now in blast, and another under construction; a stove factory; a hardware company, with a capital of \$300,000, manufacturing fine building hardware, &c., the only factory of the kind in the South; a wagon factory, with capital of \$150,000; agricultural implement works; handle factory; woodenware factory; sash, door and blind factories; a cedar bucket factory; a pump factory; planing mills; a factory to make wooden butter plates such as grocers use; a flour mill; a cotton mill in operation, and a \$500,000 mill building and others projected; a jeans factory; a gingham factory; a woolen mill; a cotton gin; a marble company; a roofing and paint company; a shoe factory; a suspender factory; a compress, packet and ferry company; building and loan companies; a canning factory; brick factories; a dummy railroad company, and a number of other enterprises.

## \$15,000,000 INVESTED.

The aggregate capital of the industrial, mercantile and development enterprises in Florence exceeds \$15,000,000.

A year ago the population of Florence was 2,000. It is now about 10,000.

There are more than 1,000 carpenters at work in Florence but they can't build houses fast enough to keep up with the increase in population.

## INVESTIGATION AND INVESTMENT.

*A number of the foremost capitalists and iron and cotton manufacturers, and others, of Philadelphia, Boston and other Eastern cities, after a thorough personal investigation, have just made heavy investments aggregating several million dollars in Florence.*

Lauderdale Manufacturing Co.    Florence Cotton and Iron Co.    } **Florence, Ala.**  
 Florence Investment Co.        Florence Railroad and Improvement Co.



# Morristown, Tenn.

## The Plateau City of the Great Valley of East Tennessee

is beautifully located on a plateau of Bay's Mountain, about equi-distant from the Cumberland Mountains which bound East Tennessee on the northwest, and the Alleghany Mountains which bound it on the southeast, and is 300 feet above Holston River, which washes the north base of the plateau three miles from the city. Its mean elevation above sea level is about 1,350 feet, while the hills and mountains immediately surrounding it rise to an altitude of 1,935 feet, affording views of surprising extent and grandeur, and at the same time so modifying the temperature that the thermometer rarely registers higher than 90° in summer or lower than 10° in winter. Its drainage is admirable, and malaria is unknown. It has nearly trebled its population since 1880, having now about 4,000 inhabitants. It is the commercial and business center of the richest and most extensive agricultural district in the State, where all the cereals and all the grasses

and tobacco are grown to perfection, and where fruits and berries abound. It has hundreds of thousands of acres of uncultured forests accessible to it, abounding in Poplar, Pine, Hemlock, six varieties of Oak, Chestnut, Hickory, Cedar, Maple, Birch, Beech, Sycamore, Gum, Locust, Laurel, Buckeye, Mulberry, Ash, Cherry and Walnut. The Celebrated East Tennessee Marble underlies a part of the city, and it is surrounded with rich deposits of Iron Ore, Manganese Ore, Zinc Ore and Lead Ore. It has been said by one who has made a study of the subject, that within a radius of 50 miles around Morristown every variety of iron ore in the United States can be duplicated, and a coke can be made equal to Connellsville coke. We claim without hesitation that Morristown has in its immediate vicinity richer mineral ores, and a greater variety of them, than any city on the Continent.

### MORRISTOWN

has Railroad Facilities equal to any city between Lynchburg and Chattanooga, and they will be speedily increased by the completion of the Carolina, Cumberland Gap & Chicago Railway, making the shortest possible railway route between the great cities on the Ohio River, Cincinnati and Louisville, and the seaboard cities, Charleston, Port Royal and Savannah. Besides, the Baltimore & Ohio Railway will probably extend a branch to it from Lexington, Va., and the Tennessee Midland will in all probability be built to Morristown, and a line be built giving direct connection with Atlanta.



MAP SHOWING RELATION OF MORRISTOWN TO THE COUNTRY AT LARGE.

### MORRISTOWN

has a citizenship composed almost exclusively of native born Americans. It boasts a splendid system of Graded Schools, Five Commodious Brick Churches, the finest Courthouse in Upper East Tennessee, an Opera House that will seat 600 people, two Solid Well Managed Banks, a flourishing Building and Loan Association, two of the Largest Commercial Flouring Mills in the South, Stove Works, an Agricultural Implement Factory, two Woodworking Factories, a Tobacco Factory, a Carriage and Wagon Factory, and many industries of lesser note.

It is lighted with electricity, and has water works under contract, and is now inaugurating a system of street railways. Its climatic advantages, its unsurpassed record for healthfulness, its abundance of pure water, its central and beautiful location, its transportation facilities, its fruitful agricultural surroundings, its contiguity to rich and exhaustless fields of iron, manganese, zinc and lead ores, marble, coal and timber, mark it as a place destined to be the commercial, manufacturing and railway emporium of Upper East Tennessee, Western North Carolina and Southeastern Kentucky.

To expedite this destiny the city authorities have wisely exempted from taxation for ten years all manufacturing establishments that will give employment to fifteen or more persons, and the county authorities have done the like, so that manufacturing establishments will be exempt from all taxation for ten years, except the merely nominal tax for State purposes. There has been no "boom" or inflation of prices at Morristown, and, as it possesses within itself and contiguous to it almost every element of wealth, it now presents the most inviting field for investment of any city in the South.

Persons who may desire fuller information can obtain it by calling on or addressing

## MONTVUE LAND COMPANY

POSTOFFICE BUILDING,—MORRISTOWN, TENNESSEE.

# CHARLOTTESVILLE, VA.

OFFERS

Great Advantages and Liberal Inducements to Manufacturers

DESIRING TO LOCATE SOUTH.

Railroad Facilities, Cheap Rates and Rapid Transportation to all Points Unexcelled.

PERFECT CLIMATE. UNLIMITED SUPPLY OF EXCELLENT WATER.

Gas, Electricity and Street Railway. Free Schools and Churches. Different Lines of Manufacturing Enterprises Already in Successful Operation Here.

## A LIVE AND GROWING PLACE.

HOME CAPITAL WILL JOIN IN THE ESTABLISHMENT AND OPERATION OF FACTORIES.

COME AND SEE, OR WRITE TO **JOHN M. WHITE, President.**

**CHARLOTTESVILLE INDUSTRIAL & LAND IMPROVEMENT CO., Charlottesville, Va.**

"The South is the coming El Dorado of American adventure. May the Almighty speed and guide her onward progress!" So wrote the Hon. W. D. Kelley, M. C., of Pennsylvania, a few months ago; and every day brings forth new evidence to prove the correctness of his prediction and to show that without a doubt the South is to be the richest country upon the globe. In climate, soil, mineral and timber wealth, in rivers large and small, in a long seacoast, in abundant rainfall, in healthfulness and in every other advantage that could be asked nature seems to have done her best for this favored land. The wealth in iron and coal is beyond estimate. Of timber there is an unlimited supply, including nearly every variety of hardwoods for woodworking purposes.

## Six Trunk Line Railroads at BESSEMER

In the heart of Mineral Alabama, encircled with hills of Coal, Iron and Limestone Rock.

WHERE  
MONEY  
WILL  
GROW!

Seven Furnaces, output 1890, 250,000 tons; Rolling Mill, 100 tons daily; Fire Brick Works, 25,000 daily; Many Lesser Industries.

Offers Thirty Varieties of Hardwoods for Woodworking Industries.

11,000 City Lots For Sale.

The **Bessemer Land & Improvement Co.**

this new year, are prepared to deal liberally for the founding of Iron and Woodworking industries in this growing Mining and Manufacturing Center.

**H. M. McNUTT,**

Secretary.



President.

## DENISON, TEXAS.

THE  
Future Manufacturing and Commercial Center  
OF THE  
GREAT SOUTHWEST.

DENISON SUPPLIES THE COAL FOR TEXAS.

She has at her gates the only **COKING COAL** of any value in the Mississippi Valley. To the Southwest lies the best **MAGNETIC IRON ORE** in the world, while to the north and Southeast are fields of **BROWN HEMATITE ORE** of the finest grade. These ores must meet the **COKE** and **COAL** at **DENISON** and there to be worked.

**DENISON** cannot be surpassed for **HEALTHFULNESS** and **BEAUTY** of location. Six divisions of railways terminate at Denison and are operated by her citizens.

**DENISON** has an abundant supply of pure, soft water and plenty of good, cheap **BUILDING MATERIAL**.

The attention of investors and those seeking advantageous locations for business or for manufacturing plants is invited to the opportunities presented at Denison.

**MUNSON & BRO.** HAVE SUPERIOR FACILITIES FOR THE SAFE AND PROFITABLE INVESTMENT AND HANDLING OF CAPITAL.

For information about **DENISON** and for bargains in **BUSINESS** and **RESIDENCE PROPERTY**, **ACRE PROPERTY** and **FARMS NEAR THE CITY**, write or call upon

**MUNSON & BRO.**

301 WOODWARD STREET,

DENISON, TEXAS.



# DENISON, TEXAS.

The "Yankee" City of the Southwest,

— AND —

\* GATEWAY \*

— TO THE —

## GREAT STATE OF TEXAS.

The City of Denison presents the Finest Opportunity of any City in the Southwest for the Investment of Capital in Large or Small Sums.

**D**ENISON is situated in Northeastern Texas near inexhaustible beds of coal and iron, surrounded by the finest fruit lands in the world, and adjoining the INDIAN TERRITORY, which, in the nature of things, must in a few years be opened to settlement.

The growth of Denison has been a natural one, the city having reached its present size—16,800 population—in sixteen years.

The city is regularly and beautifully laid out. Railroads run from it in four different directions. The Missouri, Kansas & Texas alone does an enormous business, having 54 miles of switch track in Denison, employing 500 skilled workmen and disbursing \$150,000 a month in wages.

The first public school in the State was established here, and the city's elegant two and three story brick school buildings, surrounded by attractive grounds, are well arranged for the use of the white and colored children. Its schools are in session ten months in each year.

We have sixteen church societies, seven of which are colored.

The city is well supplied with pure water from its numerous private wells—dug in the ground—and its first-class system of water works, giving the citizens ample protection against serious loss by fire, and enabling the insurance companies to rate the city first class as to fire hazard. Rate of taxation low.

The city has four miles of street railway, with six miles now building to be operated by steam motor; has two electric light companies and a telephone plant. It has an influential New England colony, and counts among its citizens people from every State in the Union.

A large hotel, to cost \$125,000, is to be erected here this year, and a large steel plant with \$2,000,000 of capital is contemplated.

30,000 bales of cotton were shipped from Denison in 1888. 200,000 baskets of strawber-

ries and several carloads of peaches and other fruits have been shipped to market this season.

The Denison Canning Co., capitalized at \$100,000, has one of the largest canning factories in the country.

A cotton mill company with a capital of \$500,000 is building a 25,000-spindle cotton mill.

The climate of Denison is magnificent, situated nearly 800 feet above sea level. In summer it is warm, but far cooler than many cities farther North, and from 6 P. M. until after sunrise it is always cool. The city is very healthy.

The capacity of the ice factory has been increased from a daily output of 15 tons to 30.

The Denison Land & Investment Co. is prepared to give every reasonable encouragement to manufacturers, and solicit correspondence from such manufacturers as contemplate coming into the Southwest to locate.

Address all communications to

## THE DENISON LAND & INVESTMENT COMPANY, DENISON, TEXAS.

Paid-Up Capital, - - - - - \$1,200,000.

### OFFICERS:

W. P. RICE, President.

MILTON H. FRENCH, Vice-President and General Manager.

ARTHUR L. BERRY, Secretary and Treasurer.

### DIRECTORS:

W. P. RICE, Kansas City, Mo.  
J. M. FORD, Kansas City, Mo.  
A. R. COLLINS, Denison, Tex.

B. J. DERBY, Burlington, Vermont.  
PAUL LANG, Oxford, N. H.  
M. V. B. CHASE, Augusta, Maine.

MILTON H. FRENCH, Thomaston, Maine.  
A. H. COFFIN, Denison, Texas.  
JOS. B. LINCOLN, Boston, Mass.

# FORT PAYNE, Alabama.

★ COME TO ★

## The NEW ENGLAND CITY of the South.

Climate Unsurpassed. Abundance of Pure Water. Drainage Excellent.

No Better Point in the Union  
For Safe and Profitable Investment.

Situated on the MAIN LINE of the QUEEN & CRESCENT ROUTE, fifty-one miles Southwest of Chattanooga, and ninety-one miles North of Birmingham.

Elevation is from 895 to 1,600 ft above the sea, and above fever districts.

DeKalb County is entirely free from debt; taxes light. Most liberal encouragement given to industries of every kind.

Iron Furnace and Rolling Mill will be constructed immediately, and other industries of various kinds are under contract.

Correspondence solicited from those who contemplate coming into the South to establish any kind of manufactories.

The different industries will employ at least two thousand skilled workmen, which will secure a population of over ten

thousand, independent of the many industries contemplated.

Iron of the best quality can be manufactured at as low cost per ton as in any other locality in the South.

Coal and iron are being developed rapidly of a superior quality.

Fine timber abundant and wood-working machinery of every kind can be profitably employed at this point.

The Company is prepared to give every reasonable encouragement to manufacturers who will locate at this point.

Correspondence solicited.

### CAPITAL \$5,000,000.

#### OFFICERS.

President, - - -	COL. J. W. SPAULDING
First Vice-President, -	HON. D. H. GOODELL
Second Vice-President, -	HON. HENRY B. PEIRCE
Secretary, - - -	C. L. T. STEDMAN
Treasurer, - - -	F. H. TOBEY
Manager, - - -	C. O. GODFREY

#### BOARD OF DIRECTORS.

HON. D. H. GOODELL, of Goodell Mfg. Co., Antrim, N. H.  
 HON. HENRY B. PEIRCE, Secretary of State of Mass.  
 GEN'L SELDEN CONNOR, Ex. Gov. of Maine, Pres.  
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 COL. JOHN B. BODDIE, Birmingham, Ala.  
 W. P. RICE, Pres. Union Investment Company of Kansas  
 City, resides Fort Payne, Ala.

## FORT PAYNE COAL & IRON COMPANY, Fort Payne, Ala.



# BUENA VISTA.

The Most Inviting Town in Virginia as a Location for Manufacturers.

In a Magnificent Farming Country—the Famed Shenandoah Valley—Surrounded by Inexhaustible Wealth of Iron and Timber.

A Wide Diversity of Enterprise, Including FURNACE, STEEL WORKS, ROLLING MILL, PULP and PAPER MILL, TANNERY, WOOLEN MILL, WAGON WORKS, &c., &c., Already Secured.

## Extracts from the Annual Report of the President and Directors, made Feb. 13, 1890:

Every development made upon your Mineral Properties has demonstrated its wonderful wealth of resources, and to-day we are able to say that you have the richest and most valuable mineral property in Virginia, and for extent, not surpassed in the South.

The fertile and extended plains, devoted eight months ago to agriculture pursuits, are now the scene of busy activity, in grading the wide streets of the town, in laying lines of pipes for its water supply, in the building of its handsome and stately business houses, and comfortable and attractive homes.

The waste lands lying along the North River are sites for extensive and valuable manufacturing enterprises, aggregating nearly a million of dollars, already secured, and many more which will be undoubtedly established during the coming year.

Your attractive and well-kept hotel has been found entirely inadequate for the accommodation of its guests, and an addition is now being made which will add about fifty rooms. Its unparalleled location affording charming views of mountain, plain and river scenery, has made it a most desirable resort, and many families expect to make it their summer home.

The valuations, which are submitted herewith, are made by competent gentlemen not connected with the Board of Directors, selected by the Buena Vista Real Estate Exchange, and the prices given are one-fourth less than those paid for lots actually sold for cash in the respective sections.

The plans for the building of the town have been taken with care, and the erection of over \$250,000 of buildings is assured within the coming twelve months, outside of what may be done by the lot owners in their individual capacity.

Whilst the revenues derived from the property might justify the payment of a large dividend upon the stock of the company, your Board of Directors submit it to your better judgment whether it is not wiser to forego a present advantage for a much larger return in the use of these earnings in the future development of the town.

Several large industrial enterprises, employing many skilled workmen, can now be secured for Buena Vista if we are enabled to subscribe liberally to the stock. The benefit to be derived from the location of such industries will ultimately far exceed any dividend which might now be declared.

It is of the first importance that a considerable sum of money be at once devoted to securing an ample supply of water and a complete system for lighting the town. With the assurance to our stockholders that the present revenue shall be devoted to these purposes, the Board of Directors have declined to declare a dividend.

The whole course of the Board in the management of the enterprise entrusted to them has been conservative, preferring to lay the foundation for real future solid worth, rather than to make present speculative values. This policy has been pursued in making the statement and the estimates now submitted to the stockholders; your Board would recommend the continuance of the same policy.

### Receipts and Disbursements to Feb. 1, 1890.

#### AMOUNTS RECEIVED.

Received for Stock .....	\$297,811.38
" " Interest .....	5,917.92
" " Sale of Lots .....	40,890.45
" from all other sources .....	12,355.99
	\$356,975.74

#### AMOUNTS PAID OUT.

General expenses .....	\$ 81,069.12
Expenses of streets and water works .....	10,869.10
Paid for real estate .....	123,608.67
Loans .....	2,000.00
Stock in manufacturing enterprises .....	32,250.00
Cash in bank .....	107,178.85
	\$356,975.74

### FINANCIAL CONDITION.

#### ASSETS.

Value of unsold lots, hotel, office, &c., within corporate limits .....	\$ 591,602.00
Bills receivable .....	65,666.05
Amount due on stock .....	82,496.36
Interest due on stock .....	4,778.42
Stock in industrial companies .....	92,500.00
Open accounts, lumber, &c. ....	25,000.00
Inventory—horses, carts, tools, &c. ....	1,000.00
Inventory—mining machinery, &c. ....	2,145.55
Cash in bank .....	107,178.85
Value pipe line and water works .....	5,000.00
Estimated value of all mineral, agricultural and timber lands, including 1,200 acres adjoining present town site and equally suitable for town purposes .....	1,000,000.00
	\$1,977,367.23

#### LIABILITIES.

Capital stock issued and outstanding .....	782,200.00
Balance due on real estate 1 and 2 years .....	85,000.00
Interest on same to 1st February, 1890 .....	3,825.00
Due on subscription to stock in Industrial Co. ....	58,750.00
Due on addition to hotel and office building .....	20,000.00
Surplus .....	1,027,592.23
	\$1,977,367.23

FOR INFORMATION ABOUT BUENA VISTA, WRITE TO

**The Buena Vista Company,**  
BUENA VISTA, VA.

# \* Manufacturers Attention. \*

## BRIDGEPORT, ALA.

### ON THE TENNESSEE RIVER.

Situating on a Plateau one hundred and fifty feet above high water, it commands a most Charming Panoramic View of the Valley Surrounded by Mountain Peaks.

Complete Drainage.      Location Perfectly Healthy.      River Navigation Open All the Year.  
Perfect Wharfage.      Railroad Freight Rates the same as Chattanooga's.

## Look at the Profitable Investments for Manufacturers.

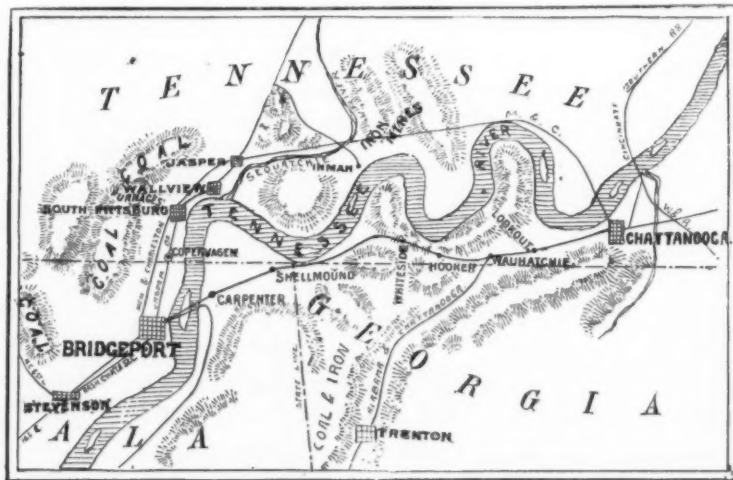
We are surrounded by Unlimited Deposits of the Best Coking Coal in the South; Mountains of Iron; over 80,000 Acres of Mineral Land belonging to this company is covered with Immense Forests of Hard and Soft Woods of the following varieties: Oak, Ash, Pine, Hickory, Poplar, Sycamore, Cedar, Elm, Gum, Red Birch, Sour Wood and Chestnut. We defy competition in variety and quantity of Timber with any section of the United States. We have Building Stone, Brick Clay, etc.

### THREE RAILROADS

Now in Operation.

Three more in course of construction.

Over Fifty Trains Daily.



Six Mails Each Way Daily.

It is the Key to the  
**SEQUACHEE VALLEY.**

Plans are now being Perfected

FOR A

**\$75,000 HOTEL**

## OUR GRAND AUCTION SALE OF LOTS

OPEN TO THE WORLD,

## TUESDAY, MAY 6.

Half-Fare Tickets to and from Nashville and Chattanooga to Bridgeport

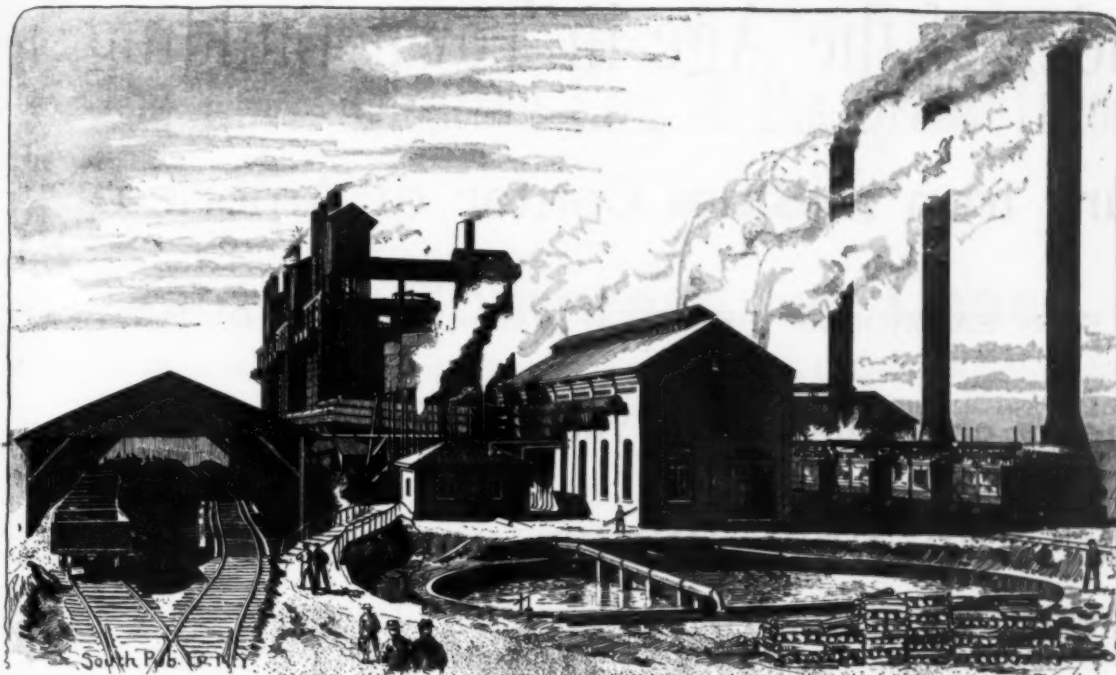
DURING THE WEEK COMMENCING MAY 5th.

BRIDGEPORT LAND & IMPROVEMENT CO., Bridgeport, Ala.



# SHEFFIELD, ALA.

## THE SUPERB.



At the Headwaters of Deep Navigation on the Tennessee River, the Hudson of the South.

The Largest Producer of HIGH-GRADE Pig Iron of any City in the Entire Industrial South.

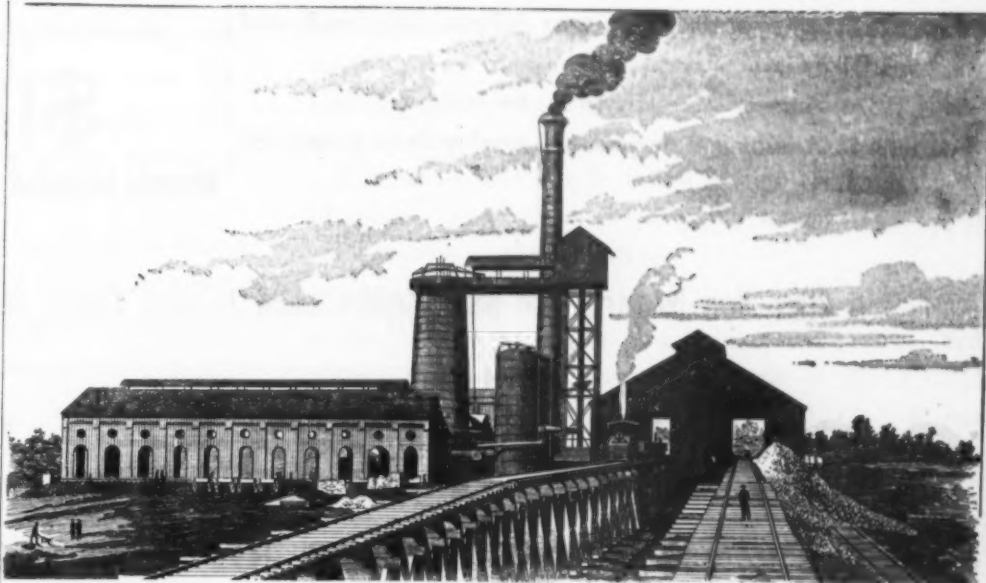
The only point in the South that has been able to ship pig iron to the cities on the Mississippi, Missouri and Ohio rivers by boat or barge without rehandling. This last shipment of 5,000 tons of Pig Iron to Pittsburgh, Pa., by barge was made at a saving of \$2.65 per ton over what any iron-producing city of the South has done or can do to-day.

Five Large Blast Furnaces

Capacity 750 tons pig iron per day.

The following are among the corporate and private enterprises that belong to Sheffield:

The Sheffield Land, Iron & Coal Co., capital \$1,000,000.  
 The Sheffield & Birmingham Coal, Iron & Railroad Co., capital \$1,000,000; the owners of three 150-ton blast furnaces.  
 The Birm., Sheffield & Tenn. River Railway Co., capital \$5,000,000.  
 The Hattie Ensley Furnace Co., capital \$200,000.  
 The Lady Ensley Furnace Co., capital \$200,000.  
 The Electric Light & Gas Fuel Works, \$50,000.  
 The Sheffield Ice Co., capital \$25,000.  
 The Sheffield Manufacturing & Constructing Co., \$30,000.  
 The Sheffield Contracting Co., \$50,000.  
 The Eureka Brick & Lumber Co., \$30,000.  
 The Howard Brick Co.  
 The Sheffield Bakery & Bottling Works.  
 The Sheffield Mineral Paint Co., capital \$50,000.  
 The Sheffield Agricultural Works, capital \$40,000.  
 The Sheffield Cotton Compress Co., \$50,000.  
 Millan Brothers, Steam Laundry.  
 Enterprise Publishing Co.  
 Water Works, already expended, \$30,000.  
 Sheffield Street Railway Co., capital \$100,000.  
 Cleveland Hotel Co., capital \$50,000.  
 Sheffield Hotel Co., capital \$120,000.  
 Bank of Commerce, capital \$150,000.  
 East Sheffield Land Co., capital \$500,000.  
 Hull & Keller's Fern Quarries.  
 Mobile Real Estate Co., capital \$50,000.  
 Sheffield Real Estate Co., capital \$50,000.  
 Sheffield & Mobile Improvement Co., capital \$100,000.  
 Sheffield Stove Works.  
 Henderson Milling Co., capital \$100,000.  
 Globe Iron & Brass Works, capital \$10,000.  
 Standard Machine Shop & Foundry, capital \$50,000.  
 Owen Pink Mixture Co., capital \$100,000.  
 Bell Telephone & Telegraph Co.  
 Foulds' Shoe Factory, capital \$20,000.  
 Enterprise Wood Working Co., capital \$30,000.  
 Buchanan Straw Goods Factory, \$25,000.  
 The Sheffield Harness & Saddlery Co., capital \$20,000.  
 Principal Shops of the Sheffield & Birmingham Railroad.  
 Principal Shops Memphis & Charleston Railroad, now being built.



Aside from the foregoing the following are in course of construction and may be considered positive: Principal Shops of the Memphis & Charleston Railroad; Principal shops of the Nashville, Florence & Sheffield Division of the Louisville & Nashville Railroad. Reasonably certain to be secured in the near future are the following, in regard to which negotiations are pending: A Rolling Mill; Large Machine Shop; A Cotton Mill.

## ALABAMA'S IRON CITY.

The Superb Location at the head of navigation on the Tennessee River, commanding the outlet to immense fields of IRON ORE and COAL and magnificent tracts of the finest Timber. Has already attracted to the spot where three years ago in a cotton field her projectors set the stakes of a new city, capital and people, unequalled in amount and number, circumstances considered, by any of the so-called new cities of the South.

With eight Church Organizations, two Free Public Schools, Postoffice, Telegraph and Express offices and abundant facilities of transportation by river and rail. It has every advantage as a residence city that can be desired.

Good Water; Drainage Excellent; Health and Climate Unsurpassed. Free Public Schools and Churches. Splendid opening for men of push and energy. No better point for profitable investment. No "Old Fogey" element here.

### Sites for Manufacturing Enterprises

And for Free Public Schools and Churches

Donated by the Sheffield Land, Iron & Coal Company.

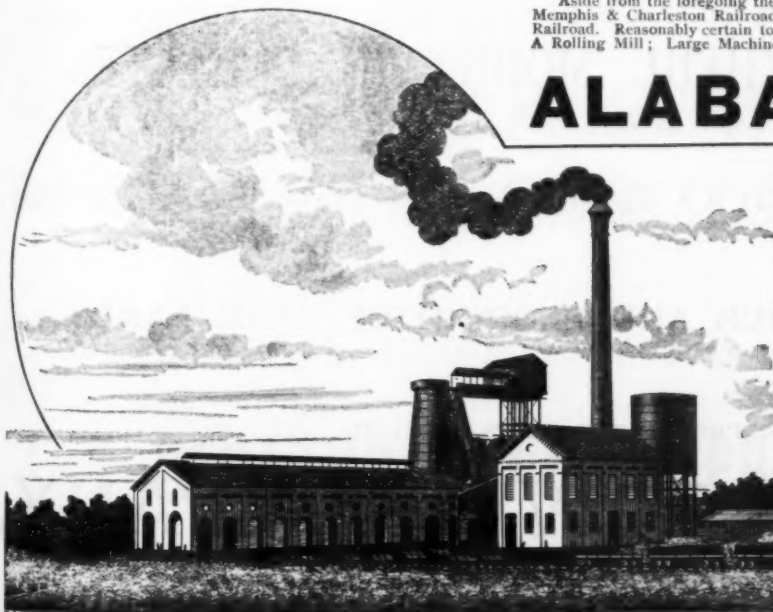
Printed information furnished on request. Correspondence solicited. Communications should be addressed

**W. L. CHAMBERS,**

Vice-President and Manager.

Sheffield Land, Iron & Coal Company,

SHEFFIELD, ALABAMA.



# MIDDLESBOROUGH,

✻══════════ KENTUCKY. ══════════✻

“The Wonder of the Age in Town Building.”

The Future Iron *and* Steel Center of America.

THE PASSAGEWAY FOR RAILROADS BETWEEN THE WEST AND THE EAST.

A SOURCE OF COKE SUPPLY FOR THE SOUTH AND WEST.

THERE ARE NOW UNDER CONTRACT:

A Basic Steel and Iron Plant, daily capacity 300 tons, to cost \$1,000,000 and to employ about 1,000 hands.

An Iron Rod Mill; A Sheet Mill; A Nail Mill.

Two Coke Iron Furnaces, 150 tons daily capacity each, and one Charcoal Furnace.

A \$500,000 Tannery—the largest in the world

Fourteen Coal Mining Enterprises, to employ about \$2,000,000 capital.

A Dozen Wood-Working Enterprises.

A Twelve-Mile Belt Railroad.

Tile Works, Fire and Building Brick Works, and a dozen or more other enterprises.

**\$18,500,000**

Already Invested in the Development of Middlesborough.

Other New Industries are Being rapidly added to those already in operation and contracted for.

## COAL, IRON, TIMBER

AND OTHER RAW MATERIALS.

DELIGHTFUL AND HEALTHFUL MOUNTAIN CLIMATE,

WHERE MALARIA AND THROAT AND LUNG TROUBLES ARE UNKNOWN.

Elevation from 1,300 to 2,400 feet above the Sea Level.

SURROUNDED BY VALLEYS OF RICH AND PRODUCTIVE FARM LANDS.

SEND FOR CIRCULARS, PROSPECTUS, MAPS, ETC., TO

### MIDDLESBOROUGH TOWN COMPANY,

MIDDLESBOROUGH KY.



# NEW DECATUR,

ALABAMA.

The New Industrial City of the Great Tennessee Valley.

## Cotton Compress for Lease or Sale.

**The Decatur Land, Improvement & Furnace Company,**

While laying out the town of New Decatur in 1887, built, for the purpose of stimulating the growth and progress of their enterprise, together with some other plants, a Cotton Compress, one of the largest and best appointed in the South, which they have since been operating. Their original intention, however, was to sell or lease the property, and they now offer it for sale or lease, preferring to induce other parties to locate in New Decatur and operate all the industrial enterprises, instead of operating any themselves. The Company will either sell or lease the entire plant, or sell the machinery and convert the building into a factory. Attention is called to the following description of the plant, the storage capacity of which is 10,000 bales, and the pressing capacity 1,000 bales daily. The ground occupied by the plant covers 28.10 acres. The machinery complete, set up, cost originally, exclusive of freight, \$30,575. Total cost of plant, including building, machinery and freight on same, brick and wood work supporting machinery and boilers, and new heater, \$81,597.42.

**BUILDING.**—Brick building 300x150 feet, covered with tin. Platform 20 feet wide extending along the entire front, with shed roof covered with tin. 6 storage rooms 34x90x24 feet high. 1 storage room 38x24 feet high. Press room 57x150x33 feet high. 1 oiler room 30x28 feet high. Oil and store room 60x30x24 feet high (in rear of boiler room). All rooms divided by 17 inch walls, running up 3 feet above the roof, and covered with sheet iron coping on top. All storage rooms have front and rear openings 10x10 feet, with wooden doors faced on both sides with tin. Also middle openings 8x9 feet with similar doors, hung on iron track and rollers. These middle doors connect all the storage rooms, for convenience in handling cotton. A well outside the building, with steam pump attached, furnishes an abundant supply of water. The well is protected by a house 10x12 feet, 15 feet high, covered with tin.

**MACHINERY.**—90-inch Morse Press, from S. B. Steers & Co., New Orleans, with pump, steam connections, feed water heater, 2 boilers 22' x 50" (made of No 1 C. H. flange iron 2 steam drums, mud drum, etc. A new heater, 42 in. x 14 ft., has been lately put in, connected with the press and boilers.

THE DECATUR LAND, IMPROVEMENT & FURNACE COMPANY has published a beautifully-printed and illustrated book of 68 pages for free distribution, entitled:

### "ON THE BANKS OF THE TENNESSEE,"

Containing a map, 22 "phototype" illustrations and 100 questions briefly but fully answered, giving all necessary information about Northern Alabama, the Tennessee Valley and New Decatur.

FOR COPIES OF THE ABOVE BOOK AND OTHER INFORMATION, ADDRESS

## THE DECATUR LAND, IMPROVEMENT & FURNACE CO.

NEW DECATUR, ALA.

# ABC PUMP

Valley Pump Co.

EASTHAMPTON,  
MASS.

ENGLISH, MORSE & CO.  
KANSAS CITY, MO.



**HARALSON & MURRAY,**  
Manufacturers' Agents and Dealers in  
**Pumps, Engines & Boilers,**  
Wood and Iron Working Machinery, and General  
Machinists, Mill and Plumbers' Supplies.  
Write for Prices. FLORENCE, ALA.

Maslin's Patent Pulsator Pump.

PAT. FEB. 12, 1880.  
Cheapest and Best Automatic Steam Vacuum  
Pump. Handling DIRTY and GRITTY  
LIQUIDS without Wear, Oil or Care.  
Simple, Economical, Efficient & Durable.  
Pumping Plants for Contractors, Irriga-  
tion, Water Works, Railroads, Mining &  
General Hydraulic Purposes. Write or call  
for Circulars. JOHN MASLIN & SON, SOLE  
MANUFACTURERS, 100-107 1st St., Jersey City, N. J.



If you want the BEST, MOST EFFICIENT and DURABLE

# CENTRIFUGAL PUMP



IN THE MARKET, REMEMBER  
THAT THE  
Original Baldwinville  
Centrifugal Pumps  
ARE MANUFACTURED ONLY BY  
BOGGS & CLARKE, - SYRACUSE N. Y.  
Write for Catalogue and Prices.

# PUMPS

THE JOHN H. McCOWAN CO.

42, 44, 46 Central Ave., CINCINNATI, O. Branch House, 1425 E. Main St., RICHMOND, VA.

We manufacture direct acting  
Duplex and Crank and Fly Wheel  
Steam Pumps for all services.  
Brass Founders and manufact-  
urers of Brass and Iron Body  
goods. Straightway valves, etc.  
Iron Pipe and Fittings and Mill  
Supplies. Boiler Feed Pumps  
a specialty. Address

# THE LAIDLAW & DUNN CO.



**SILVER & DEMING MFG CO.**  
MANUFACTURERS OF  
**PUMPS**  
FOR  
POWER HAND & WINDMILL USE.  
ARTESIAN WELL PUMPS & CYLINDERS A SPECIALTY  
SALEM, OHIO.

# THE ECLIPSE PUMP MFG CO.



**HYDRAULIC JACKS.**  
BEST IMPROVEMENTS. MOST STYLES.  
Hydraulic Presses, Hydraulic Pumps, Valves & Fittings,  
Vreeland's Transfer Jacks, Hydraulic and Screw Punches,  
LEVER PUNCHES and SHEARS.  
**WATSON & STILLMAN**  
—210 E. 43d Street, NEW YORK.—

To Secure SOUTHERN TRADE

ADVERTISE IN THE

MANUFACTURERS' RECORD.

# DEAN BROS' STEAM PUMP WORKS.



INDIANAPOLIS, IND.

**BLAKESLEE MFG. CO.**  
DU. QUON ILL.  
SEND FOR CATALOGUE  
**STEAM PUMPS.**  
We have just issued a new illustrated  
catalogue of our Steam & Jet Pumps. A  
copy will be mailed free on application.

The Buffalo Steam Pump Co.  
MANUFACTURERS OF  
**Steam Pumps**  
FOR ALL DUTIES.  
BUFFALO, N. Y.

**GEO. F. BLAKE MFG. CO.**  
BUILDERS OF STEAM AND POWER  
**Pumping Machinery**  
111 Federal Street, Boston.  
95 and 97 Liberty St., N. Y., 535 Arch St., Philadelphia.

**WHY THIS IS PUT HERE!**  
For the reason that if you are  
interested in raising water or other  
liquids by steam power, we wish to  
call your attention to the  
**NEW PULSOMETER,**  
THE CHEAPEST AND BEST STEAM PUMP IN THE MARKET. PRICES LOWER THAN ANY OTHER.  
More Efficient, Simple, Durable, and more Economical, both as to  
running expenses and repairs, than any other Steam Pump.  
For Mining, Railroad or Steamboat use, Paper Mill, Chemical or Gas Works, Tannery,  
Brewery or Sugar Refineries, Draining Quarries, Cellars or  
Plantations, Irrigating or Hydraulic Mining.  
Call or write for our new 64 page Illustrated Descriptive Book containing Full Particulars,  
Reduced Net Prices, and hundreds of A-1 Testimonials. Mailed Free.  
Pulsometer Steam Pump Co., 120 Liberty St., N. Y.

The Improved Smith & Vaile  
— SINGLE, DUPLEX AND COMPOUND —  
**Steam Pumps**  
FOR EVERY DUTY.

**Water-Works Machinery.**  
  
**The SMITH & VAILE CO.**  
DAYTON, OHIO, and NEW YORK,  
119 LIBERTY STREET.

EASTERN AND SOUTHERN AGENTS:  
THOS. K. CAREY & BROS., 26 Light Street, - - BALTIMORE, MD.  
G. W. STORER, 149 North Third Street, - - PHILADELPHIA, PA.  
D. A. TOMPKINS CO., - - CHARLOTTE, N. C., and ATLANTA, GA.



# THE GORDON STEAM PUMP CO.

HAMILTON, OHIO.

## Steam Pumping Machinery.

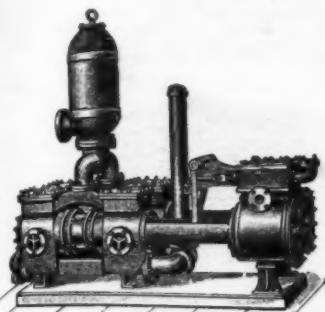
WATER WORKS AND SEWERAGE PUMPING ENGINES

FOR CITIES, TOWNS AND VILLAGES.

Pumps for Every Duty.

Patterns Recently Remodeled.

BOILER FEED PUMPS, ELEVATOR PUMPS, FIRE PUMPS, DEEP WELL PUMPS.

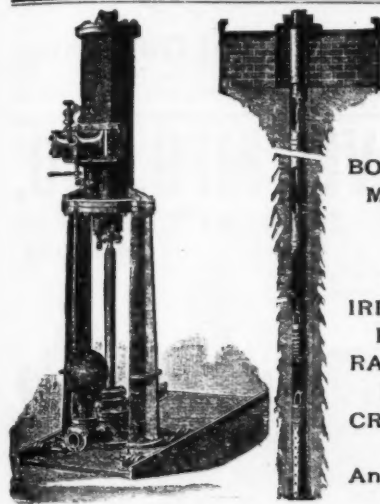


NEW YORK--98 LIBERTY STREET.

PHILADELPHIA--705 ARCH STREET.

PITTSBURGH--PENN BUILDING.

CHICAGO--PHENIX BUILDING.

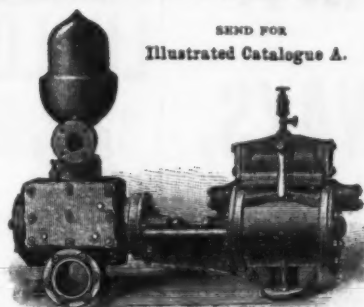


ARTESIAN WELL PUMPS.

## CAMERON STEAM PUMPS.

PUMPS FOR  
BOILER-FEEDING,  
MINES,  
REFINERIES,  
BREWERIES,  
TANNERIES,  
IRRIGATING,  
FIRE PURPOSES,  
RAILROADS and  
FILLING TANKS,  
CRANK and  
FLY WHEEL  
And VACUUM

SEND FOR  
Illustrated Catalogue A.

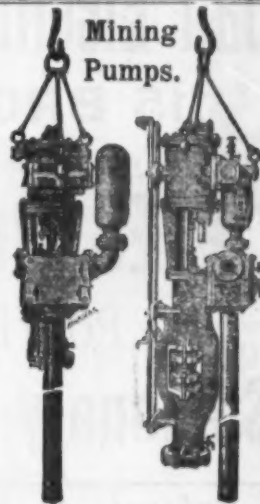


SIMPLE,  
COMPACT,  
DURABLE,  
EFFICIENT.

ADAPTED TO  
ALL PURPOSES.

NO OUTSIDE  
VALVE GEAR.

The A. S. Cameron Steam Pump Works,  
NEW YORK.



Piston Patt'n.

Plunger Pattern.

## H. WM. DOPP & SON,

MANUFACTURERS OF

Soap Makers' and Butchers' Machinery,

462 Ellicott Street, Buffalo, New York, U. S. A.



Swing Foot Lever Soap Presses, Nos. 1 and 2. Combination Foot and Steam Power Soap Presses. Improved Soap Remelting Cutters, either with or without 8 Horse Power Engine attached. Seamless Steam Jacket Kettles. Steamed Jacketed Toilet Soap Kettle, with Agitator (three different styles). Steam Jacketed Rendering and Refining Kettles. Steam Jacketed Kettles for Confectioners.

ILLUSTRATED AND DESCRIPTIVE CATALOGUE

Improved Lard Dryer, Mixer and Cooler. Steam Jacketed Vacuum Pans. Hotel Kettles for Boiling and Steaming in Hospitals, Institutes, Barracks, Hotels, Asylums, &c., &c. Steam Jacketed Glue Pot Heaters. Iron Soap Cutting Frames, with Adjustable Wires. Soap Dies, for Stamping and Moulding the Soap. Hand Stamps, Steam Traps, with Balanced Valve, &c.

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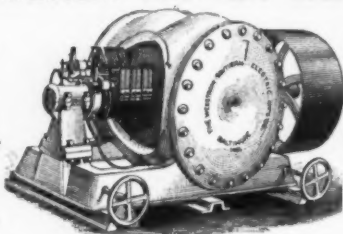
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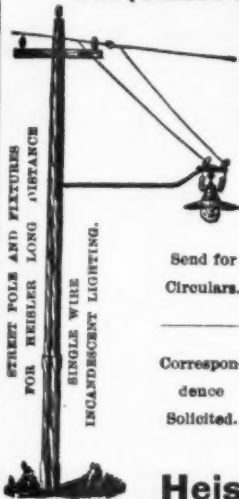
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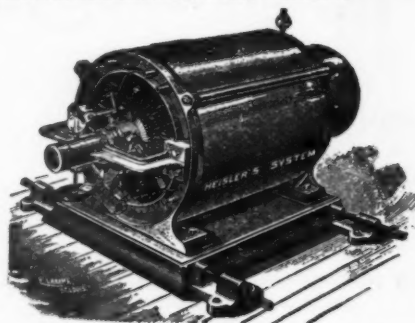
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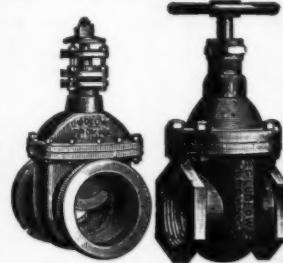
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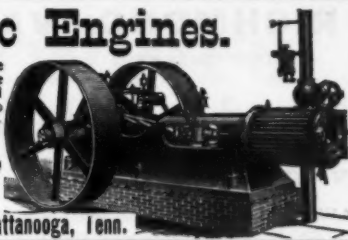


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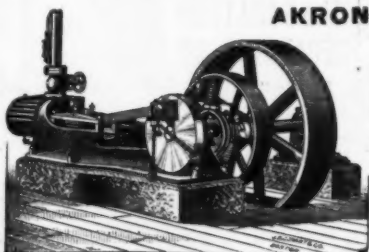
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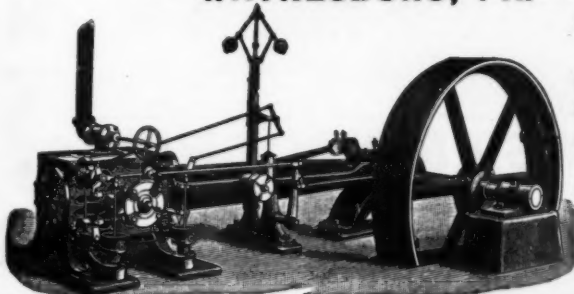


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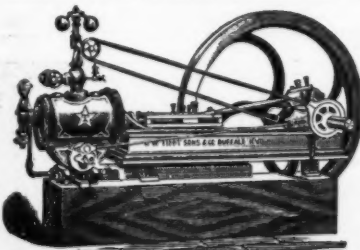
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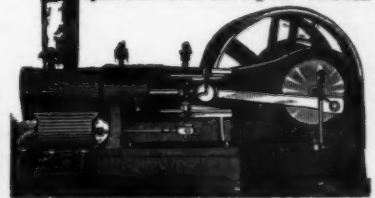
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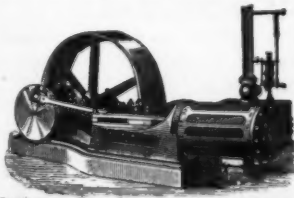
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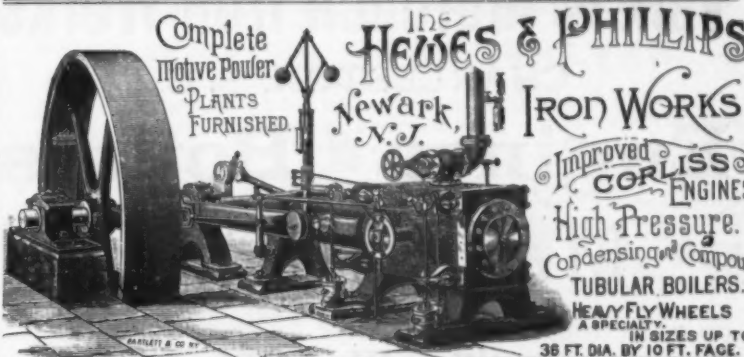
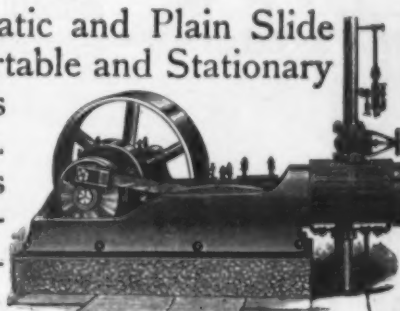
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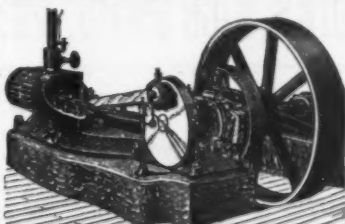
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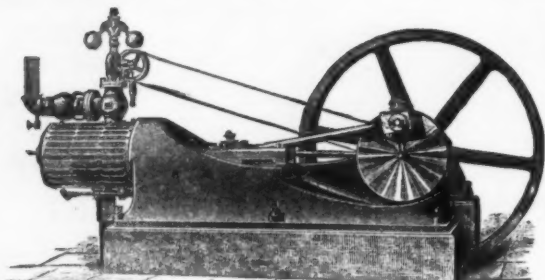
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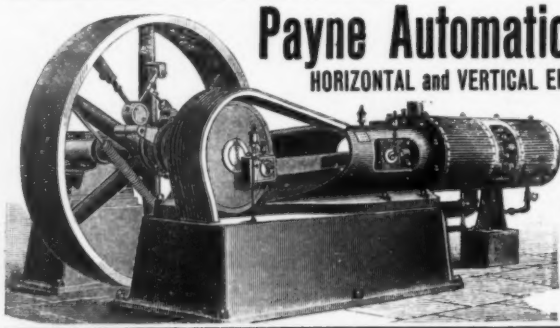
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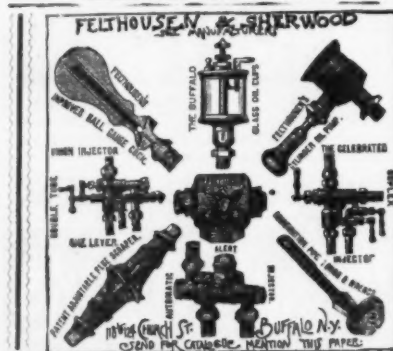
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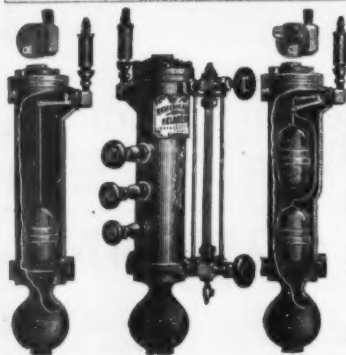
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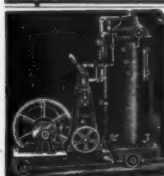
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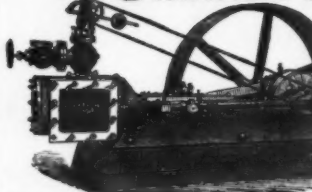
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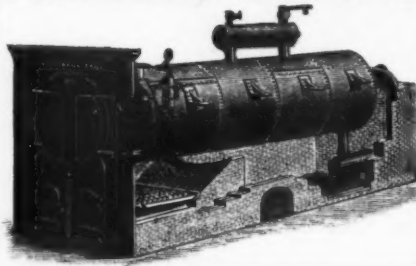
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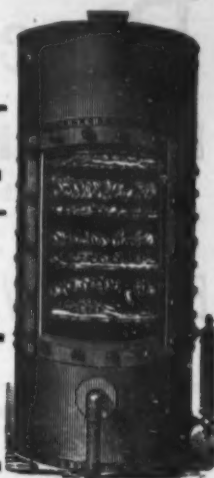
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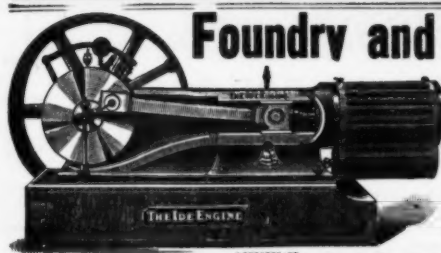
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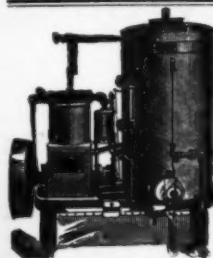
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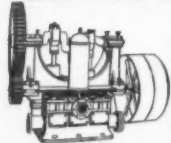
**SPIRAL STEEL CONVEYOR.**

SOLID & INSERTED SAWS.  
 PLANER KNIVES and BITS.  
 EMERY WHEELS, FILES.  
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**CHATTANOOGA SAW WORKS,**  
 MANUFACTURERS AND DEALERS IN  
**SAWS and SAW MILL SUPPLIES**  
 EVERY SAW FULLY GUARANTEED.  
 WE MAKE A SPECIALTY OF REPAIRING ALL KINDS OF SAWS  
 CHATTANOOGA, TENNESSEE.

PLANERS and MATCHES.  
 SHINGLE MACHINES.  
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 AUTOMATIC ENGINES.  
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 SHAFTING, PULLEYS AND  
 HANCERS. BRADY ENG CO.

## WATER SUPPLY!



For Irrigation or Fire Protection, Supplying Hydraulic Elevators and Pulp Grinders, Feeding Steam Boilers, and the countless services of pumping water or air for supply, vacuum or pressure, our GEARED TRIPLE-ACTING POWER PUMPS are unexcelled. Manufacturers, Mill and Property Owners will be interested. Send for No. 5 catalogue illustrating and describing these pumps, with hundreds of others, for Manual, Animal, Wind, Water, Steam, Oil, Gas and Electric Power. Power Pumps for Motors a specialty.

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13-23 Ovid Street, Seneca Falls, N.Y., U. S. A., and 60 Barclay St., New York.  
 GENERAL AGENCIES: Goulds, Caldwell Co., Chicago Ill.; N. O. Nelson Mfg. Co., St. Louis.

FOR STATIONARY, MARINE, LOCOMOTIVE AND HOISTING ENGINE BOILERS,  
 Instant and perfect relief given. Non-corrosive and always reliable. Also,

## THE ASHTON VALVE CO.'S Lock-Up "POP" Safety Valves,

WATER RELIEF VALVES FOR STEAM FIRE ENGINES,  
 STEAM PUMPS AND STANDPIPES.

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Manufacturers of Every Description of

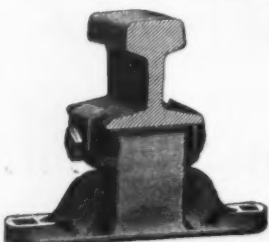
**Dumping and Mining Cars**

IN WOOD, IRON AND STEEL.

**Portable Track and Switches.**

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 CHICAGO, ILL.

## R. T. WHITE, 12 Pearl Street, BOSTON, MASS.



DAISY CHAIR.

Patented January 28th, 1890.  
 Sample Chair and Section of Rail sent (express prepaid) to prospective purchasers. Made of cast iron or cast steel mixture and for any form of rail having a T rail form of base.

**Improved Patented Material  
 Street Railway Roadbeds.**

BEST MATERIAL. LOWEST PRICES.  
 CORRESPONDENCE SOLICITED.

**THOMAS ASHBURNER, Western Agent,  
 KANSAS CITY, MO.**

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## POTOMAC BRIDGE WORKS,

FREDERICK CITY, MD.

BRIDGE ENGINEER and CONTRACTOR.

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## THADDEUS S. COBB & CO.

MANUFACTURERS' AGENTS AND DEALERS IN

## MACHINERY OF EVERY DESCRIPTION.

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**Lewis Miller's Improved Steam and Hydraulic Cotton Compress,**  
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The most powerful, economical, and the fastest working Compress built. The only Compress in the world that will load cars and vessels to their full tonnage.

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## SALEM, VA.

## Litigation Over the Property Settled.

The "Switzerland of the South" Shows Great Activity.

[Spec. corresp'dence MANUFACTURERS' RECORD.]

SALEM, VA., March 18, 1890.

While it is true that Salem has maintained the "even tenor of its way" during the past sixty days, it has nevertheless labored under great disadvantages. The Salem Improvement Co. was organized on the 2d of October last with an authorized capital of \$1,000,000. Of this amount, however, there was issued only \$300,000, which was all rapidly disposed of, and at once sold at a premium. Shortly after this a suit was instituted in the Circuit Court by a syndicate which claimed to have secured a prior option on the property acquired by the Salem Improvement Co., and they were strongly contesting their rights of "previous option." For some time this has seriously retarded the growth and development of this town, and several important industries hesitated about locating on property in controversy. The proceedings, fortunately for all concerned, terminated on Saturday last, by the Southwest Virginia Land Co. (which claimed priority) entering into an agreement withdrawing all claims against the property, and authorizing their counsel, Hon. John W. Daniel and others, to enter the case dismissed from the docket of the court. This removed all obstacles or obstructions that have to some extent acted against the growth of this marvelous section. And now that this is out of the way, the establishment of manufacturing industries and extensive building operations are assured. Salem is on a wave of prosperity, and this statement is well supported by the remarkable activity manifested. The only obstacle to its growth has been removed, and from to-day it will form a very important element in the financial and industrial region of the Southwest. When it was known to a certainty that the settlement had been consummated, its influence was magical. The stockholders and all others were jubilant, stock rapidly advanced and a number of lots changed hands. So great was the demand that the president, Mr. J. W. F. Allemon, decided to place on the market an additional number of lots, and at reasonable figures, and they did not "go a-begging." The company has also decided to lay out and place on the market at an early day about 1,000 lots of the same addition, and the indications are that there will be great activity. There is a general feeling of buoyancy. Contracts were signed yesterday for a number of handsome private residences, and several large manufacturing industries are positively assured. Salem has appropriately been called the "Switzerland of the South," and it is justly entitled to the appellation. Situated as it is, and liberally endowed by nature, its advantages are numerous. Its educational facilities are excellent, and in every respect it has the solid foundation for the development of a city. Salem's future is bright, and it will speedily take rank with the other phenomenal cities of the South. I predict that in less than one year, instead of having a population of 3,000, it will have 10,000.

A glance over the lands of the Salem Improvement Co. exhibits a large number of fine dwellings, several manufacturing industries, a new bank building, carriage works, brick plants and the new furnace, on which work is progressing rapidly, while a steel plant is under negotiation. I believe that Salem will very soon rival Roanoke, for the people are energetic and working harmoniously. The old adage of "in union there is strength" is still true.

CHAS. E. HERBERT.

## Railroad Construction

Abbeville, Ga.—Railroad.—The Abbeville Investment & Construction Co., lately mentioned, states that it has secured contract for constructing the Abbeville & Waycross Railroad, 83 miles in length. Construction has commenced.

Annapolis, Md.—A bill has been introduced into the legislature to incorporate the Baltimore City Passenger Railway Co., of Baltimore, and to enable it to use improved methods of traction and motive power and increase its capital stock. This is an entirely different bill for the one reported under Baltimore two weeks ago.

Annapolis, Md.—A bill has been introduced into the legislature amending the charter of the Baltimore & Drum Point Railroad Co. so as to allow it to construct a railroad 60 miles long in a southerly direction, and to connect and deal with other railroad companies.

Annapolis, Md.—Bills have been introduced into the legislature to authorize the commissioners of Caroline county to aid the Delaware & Chesapeake Railroad Co. in the construction of a branch to extend through Caroline county; to incorporate the Washington & Marlboro Electric Railway Co., of Prince George's county, for the purpose of constructing an electric railway from Marlboro to Washington, D. C.—capital \$100,000; to incorporate the Hagerstown Street Railway Co., of Hagerstown; to incorporate the Baltimore, Brooklyn & Cedar Hill Railroad Co.

Annapolis, Md.—Railroad.—A bill is to be introduced into the legislature to incorporate the Eastern, Centerville & Chestertown Railway Co., with E. L. F. Hardcastle, George R. Goldborough and Hedge Thompson, of Talbot county; Wm. McKenney, John B. Brown and James Brown, of Queen Anne's county; James A. Pearce and Wm. S. Walker, of Kent county, as incorporators; capital stock \$500,000. The company contemplates constructing a railroad through Talbot, Queen Anne's and Kent counties.

Atlanta, Ga.—Belt Railroad.—It is stated that the Richmond & West Point Terminal Railway & Warehouse Co. (office, West Point, Va.) will construct a belt railroad from the Georgia Pacific Railroad to the Central Railroad of Georgia, for which \$200,000 is said to have been appropriated.

Atlanta, Ga.—Railroad.—It is reported the work will commence shortly double-tracking the Georgia Pacific Railroad (office of company Birmingham, Ala.) to Birmingham.

Atlanta, Ga.—The W. S. Bell Lumber & Investment Co., mentioned elsewhere in this issue as chartered, has authority to construct railroads.

Augusta, Ga.—Jesse Thompson & Co. and A. J. Twigg have each been awarded contract for furnishing 10,000 ties to the Augusta Street Railroad Co. for its electrical railroad lately mentioned.

Bartow, Fla.—Railroad.—It is said that the Florida Southern Railroad Co. (office, Palatka) will widen the gauge of its road from Bartow to Punta Gorda.

Basic City, Va.—Railroad.—The Basic City, West Virginia & Pittsburgh Railway Co., lately mentioned, contemplates the construction of a railroad from Waynesboro or Basic City to Pittsburgh, Pa., via Harrisonburg or Mt. Sidney A. C. Braxton can give information.

Basic City, Va.—Belt Railroad.—It is stated that the Basic City Mining, Manufacturing & Land Co. will construct a belt railroad.

Belton, Ga.—Railroad.—The Belton, Homer & Carnesville Railroad Co. has been organized for the purpose of constructing a railroad about 30 miles in length to Carnesville via Homer. Madison Buice is president, and P. M. Edwards, secretary.

Benedict, Md.—Railroad.—Surveys are reported as being made for a railroad to extend to Longworth Point.

Big Stone Gap, Va.—Belt Railroad.—The Big Stone Gap Improvement Co. will construct a 6-mile belt railroad.

Big Stone Gap, Va.—Dummy Railroad.—The street railroad recently reported will be built by the Big Stone Gap Improvement Co. Dummies will be used.

Birmingham, Ala.—Dummy Railroad.—Articles of incorporation have been filed for the Valley Railway Co., previously reported as being organized by J. A. Van Hoose, E. W. Rucker, Joseph F. Johnston, Joseph Mc Lester and R. H. Pearson; capital stock \$100,000. The company contemplates constructing a dummy railroad from East Lake to Bessemer.

Birmingham, Ala.—Street Railroads.—Negotiations are pending for the purchase by a syndicate of local capitalists of the properties, franchises, etc., of the Birmingham & Ensley Dummy Railroad Co., the Birmingham Powderly & Bessemer Dummy Railway Co. and the Birmingham Union Railway Co., comprising in all about 30 miles of track; also for the plant of the Birmingham Electric Light Co., as was previously rumored. The railways will be operated by electricity. The capital stock of the syndicate is \$5,000,000.

Birmingham, Ala.—Railroad.—Work will commence shortly laying the double track on the

Louisville & Nashville Railroad, (company's office, Louisville, Ky.), to Decatur, 84 miles distant.

Bowling Green, Ky.—Railroad.—P. Blaser has secured a contract for grading 15 miles on the Bowling Green, Leitchfield & Falls of Rough Railroad.

Bristol, Tenn.—Railroad.—It is rumored that the Norfolk & Western Railroad Co. (office, Roanoke, Va.) has purchased the South Atlantic & Ohio Railroad, 45 miles long, and extending from Bristol to Natural Tunnel.

Chester, S. C.—Railroad.—The commissioners of Chester county have ordered an election to be held on April 8 on the question of issuing \$100,000 of bonds for the benefit of the Atlantic, Asheville & Knoxville Railroad Co., previously mentioned.

Comanche, Texas.—Railroad.—The Fort Worth & Rio Grande Railroad Co. (office, Fort Worth) confirms the report of last week that it has let the contract for constructing its branch to Austin.

Covington, Va.—Railroad.—The final survey of the Covington & Wm Springs Branch of the Chesapeake & Ohio Railroad (office, Richmond), previously reported, has been completed.

Fincastle, Va.—Railroad.—The Fincastle & Southern Botetourt Development Co. has been chartered with Wm. B. Simmons, president, and George Swann, secretary. The company is organized for the purpose of constructing the Fincastle & Troutville Railroad, lately mentioned as to extend to Troutville, about 15 miles distant.

Fort Worth, Texas.—The Texas Street Railway & Land Co. has been organized at Boston, Mass., with Thomas J. Hurley, of Fort Worth, president, and H. C. Butman, secretary. General offices to be at Boston and Southern office at Fort Worth. Capital stock is \$500,000. The company contemplates securing control of street railways and operating factories, mineral properties, etc., in Texas. It has, as was previously reported, secured control of the street railways of Austin, Gainesville and a part of Fort Worth.

Frankfort, Ky.—Bills have been introduced into the legislature to incorporate the Lancaster, McKee & Middlesborough Railroad Co. to build the railroad mentioned lately from Lancaster to Middlesborough; to incorporate the Danville, Lancaster & Pound Gap Railroad Co.; to incorporate the Owensboro & Madisonville Railroad Co.; to incorporate the Kentucky River & Virginia Railroad Co.; to incorporate the West Point & Louisville Railroad Co. for the purpose of constructing railroad from West Point to Louisville; capital stock \$3,000,000; Turner Wilson, F. De Funiak, H. C. Chesaman, John L. Sneed and others are the incorporators; to incorporate the Paducah, Nashville & Charleston Trunk Line Railroad Co. with Benton McMillan, J. E. Washington, W. J. Stone, J. K. Hendrick and others as incorporators.

Franklin, Tenn.—Railroad.—The Franklin & Nashville Rapid Transit Co. has been chartered by George E. Matthews, E. L. Beech, Thomas B. Johnson, P. E. Cox and Bradley J. Campbell for the purpose of constructing a railroad to Nashville, about 30 miles distant.

Greensboro, N. C.—Street Railroad.—R. R. King, mentioned last week, states that he and associates will construct a street railway as soon as arrangements can be made.

Greenville, Miss.—Railroad.—The Greenville, Nashville & Chattanooga Railroad Co., lately mentioned, has been chartered by F. L. Bates, of Greenville; James H. Hackett, of Jacksonville, Ill., and John H. Rice, of Fort Scott, Kans., for the purpose of constructing a railroad through Washington, Boliver, Sunflower, Tallahatchie, La Fayette, Union, Tippah and Alcorn counties, and a branch from La Fayette county through the northern part of Alabama to Chattanooga, Tenn.

Hendersonville, N. C.—Street Railroad.—S. V. Pickens and others are reported as contemplating the construction of a street railroad.

Jackson, Miss.—Railroad.—The citizens have been asked to subscribe for \$70,000 of preferred stock of the Mobile, Jackson & Kansas City Railroad Co., lately mentioned.

Knoxville, Tenn.—The mortgage by the East Tennessee, Virginia & Georgia Railway Co. to the Central Trust Co., of New York city, for \$15,000,000, has been filed for record. The proceeds of the mortgage will, it is said, be used in making repairs in the present system and building extensions.

La Grange, Ga.—Railroad.—Sherry & Moore have contract for grading 6 miles and Pascal & Co. for 5 miles on the Macon & Birmingham Railroad near La Grange.

Lexington, Ky.—It is rumored that the Lexington Passenger Belt Railway Co. will shortly assume control of the Lexington Street Railway Co.

Lynchburg, Va.—Dummy Railroad.—The West Lynchburg Land Co., mentioned elsewhere in this issue, contemplates the construction of a dummy railroad to its property.

Mobile, Ala.—Bids have not yet been closed for the construction of the Gulf & Chicago Railroad, as was reported recently. W. S. Lewis, secretary Gulf & Chicago Railway Co., 38 St. Francis street,

Mobile, will receive proposals until April 8 for the construction of 364 miles of railroad from Mobile to a point near Sheffield, Ala. Address C. C. Merrick, Room 15, Union Building, Chicago, Ill., for information.

Mobile, Ala.—Street Railroad.—The Mobile Fair Grounds & Western Shore Railroad Co. has been incorporated by Fremont Throver, James W. Baird and Wm. C. Gaynor with a capital stock of \$100,000. The company contemplates constructing a railroad to City Point.

Onslow, N. C.—Railroad.—The Tennessee Construction Co. has secured the contract for grading the Onslow & Burgaw Railroad.

Pocahontas, Va.—The Richmond & Petersburg Railway Co. (office, Richmond) is said to contemplate the enlargement of its yards.

Ravenswood, W. Va.—Railroad.—The locating surveys for the Ravenswood, Spencer & Glendale Railroad, previously reported as to be built by the Ohio River Railroad Co. (office, Parkersburg), have been finished. It is said that construction will be commenced shortly.

Richmond, Va.—Belt Railroad. Mason, Hoge & Co., of Louisville, Ky., have secured contract for constructing the 8-mile belt railroad, previously mentioned, to connect the Richmond, Fredericksburg & Potomac and the Richmond & Petersburg Railroads. Work will, it is said, commence at once.

Richmond, Va.—Bills have been introduced into the legislature to incorporate the Albemarle Mining, Manufacturing & Railway Co.

Roanoke, Va.—Railroad.—The Norfolk & Western Railroad Co. is said to contemplate constructing a short branch to extend parallel to the Roanoke river.

Roanoke, Va.—Railroad.—The Norfolk & Western Railroad Co. has awarded the contract for constructing sections 151 to 160 of its extension, lately mentioned, to Hugh Keogh, of Lancaster, Pa.; for sections 161 to 180 to Paige, Carey & Co., of New York city; for sections 181 to 184 to W. F. Patterson, of Pittsburgh, Pa.; for sections 185 to 191 to Mason, Hoge & Hoge, of Louisville, Ky.; for the masonry for the Ohio river bridge to W. F. Patterson, of Pittsburgh. The Edge Moor Bridge Works, of Wilmington, Del., have contract for superstructure of the same bridge. E. A. Tennis has contract for cross ties.

Shelbyville, Tenn.—Railroad.—The town has decided by a vote of 372 to 3 to subscribe \$35,000 to the capital stock of the Decatur, Chesapeake & New Orleans Railroad Co., lately mentioned.

Stanford, Ky.—Railroad.—It is said that a company to be composed of Pennsylvania and West Virginia capitalists headed by James R. Hindman contemplates the construction of a railroad to Nashville.

Stevenson, Ala.—Railroad.—It is reported that a company has been organized to construct the railroad previously rumored to extend to Jackson, Tenn., via Winchester, Tenn.

Tallapoosa, Ga.—Railroad.—Surveys are reported as being made on the projected Georgia, Tennessee & Illinois Railroad, which it is proposed to build to Chattanooga, Tenn. L. F. Belinger, chief engineer, can give information.

Walterboro, S. C.—Railroad.—The Walterboro Construction Co., mentioned last week, is incorporated for the purpose of constructing and equipping the Yemassee & Walterboro Railroad, referred to several weeks ago, from Yemassee to Pugnalls Station. Work is to commence at once. R. C. Barkley, Charleston, can give information.

Waco, Texas.—Railroad.—The Waco, Trinity & Sabine Railway Co., lately mentioned, has filed its charter; capital stock \$250,000. The company contemplates the construction of a railroad 250 miles in length from Waco to the cypress lands of Louisiana.

Washington, D. C.—Street Railroad.—The Columbia Railroad Co. is considering an extension of its line.

A CALIFORNIA miner, in discussing gold mines, recently said: "There is a mineral belt full of rich ore extending from Nova Scotia to a portion of Mexico, and I have prospected all over the territory. I have devoted a considerable time to making an examination of the country lying within the boundaries of Virginia and Maryland, and the results have been astonishing to me. It is my opinion that the Maryland gold mines adjacent to the District of Columbia are going to yield the most profit. Some of the ore has assayed fully \$1,000 to the ton, and there is an abundance of easily-worked limestone throughout the entire vein. Some of the pieces that I picked up off the refuse heap would make an old Forty-niner's pulse beat pretty quick, and there was no attempt made to select specimens, but they were taken haphazard. With proper machinery and experienced miners there is a great future for the Maryland gold belt, which only requires careful working to pay a handsome profit upon any capital invested."



## Southern Financial News.

## NEW BANKS.

Atlanta, Ga.—The name of the company formed by the consolidation of the Traders' Bank, the American Banking Co. and a bank of Gainesville, mentioned last week, will be the American Trust & Banking Co.; capital stock \$500,000.

Bluffton, Ala.—A bank with \$50,000 capital has been organized. A \$5,000 stone building is to be erected.

Bowling Green, Ky.—The Commercial Banking Co. has been incorporated with \$100,000 capital.

Fluence, Ala.—The bank of W. P. Campbell & Co. has been incorporated as a State bank with \$250,000 capital.

Frankfort, Ky.—Bills have been introduced into the legislature to incorporate the Hopkins County Bank; to incorporate the Bank of Louisa, of Louisa; to incorporate the Farmers & Laborers' Bank of Henderson; to incorporate the Kentucky Abstract & Guarantee Association; to incorporate the Citizens' Bank of Beech Grove; to incorporate the Farmers' Bank of Leitchfield.

Galveston, Texas.—George M. Courts, S. S. Hanscom, E. H. Porter and others are organizing the Galveston Co-operative Savings & Loan Association.

Little Rock, Ark.—O. M. Nilson, of Jonesboro, lately mentioned, intends organizing the National Bank of Commerce with a capital of \$500,000.

Llano, Texas.—T. W. Kellogg, of Dallas, has applied for authority to organize the Llano National Bank. W. T. Moore and associates have also applied for permission to organize the Irion City National Bank of Llano.

Middlesborough, Ky.—The Middlesborough Stock Investment Co. has been organized with a capital stock of \$1,000,000.

Montezuma, Ga.—J. E. DeVaughn, W. T. Christopher, E. B. Lewis and others have applied for a charter for a company to be known as the Montezuma Investment Co.; capital not less than \$200,000 or more than \$500,000.

Natchitoches, La.—D. P. Doak, of Kansas City, Mo., will, it is stated, organize a bank with a capital of \$50,000.

Orangeburg, S. C.—A meeting of the stockholders of the Edisto Bank will be held on April 7 to consider, among other matters, an increase of capital stock. Its present capital stock is \$30,000.

Orange City, Fla.—It is reported that a bank will be organized.

Orlando, Fla.—The capital stock of the Citizens' National Bank has been increased from \$50,000 to \$100,000.

Richland, Ga.—The Bank of Richland has been organized with \$50,000 capital. D. B. Harrell is president, and O. V. Lamar, cashier.

Salley, S. C.—The organization of a bank is being talked of.

Seymour, Texas.—The First National Bank of Seymour has been organized with A. M. Britain, president, and D. D. Wall, cashier.

Thomaston, Ga.—Charter for a new bank has been obtained.

Throckmorton, Texas.—N. L. Bartholomew and associates, of Albany, have applied for permission to organize the First National Bank of Throckmorton.

Yoakum, Texas.—T. E. Clemonds, of Longview, is endeavoring to organize a national bank.

Aberdeen, Miss., has asked for permission to issue \$25,000 bonds for school purposes.

A bill has been introduced into the Maryland legislature authorizing the Paper Board Manufacturing Co., of Baltimore, to issue bonds and to hold property.

Baltimore, Md.—The Hopkins Place Savings Bank has declared an extra dividend of 1 per cent., payable April 10.

Chatham county, Ga. (county seat, Savannah) has decided to sell \$70,000 of courthouse bonds.

Chattanooga, Tenn., will hold an election on March 26 to decide as to the issuance of \$500,000 of bonds of public improvements lately reported.

Chester county, S. C., will hold an election April 8 on the question of issuing \$100,000 of bonds to aid the Atlantic, Asheville & Knoxville Railroad Co. in the construction of its road.

Cumberland, Md., has been authorized to issue \$70,000 of bonds, previously referred to.

Dooly county, Ga., has sold its courthouse bonds to the Bank of Vienna, Vienna, Ga.

Douglasville College, Douglasville, Ga., has placed bonds to provide for an addition to its buildings.

Frederick county, Md., has asked for permission to issue \$130,000 of 20 year bonds.

G. E. Bovee, city clerk, El Paso, Texas, will receive proposals until March 28 for the purchase of \$30,000 of public school bonds and \$20,000 of funded indebtedness bonds. The bonds are to bear 6 per cent. interest and to run for 30 years

with privilege of redeeming at expiration of 15 years. No bid less than par value and accrued interest will be accepted.

John B. Gordon, governor Atlanta, Ga., will receive, until May 7, proposals for a series of bonds, referred to last week, not to exceed in the aggregate \$1,900,000; bonds to be dated July 1, 1890. \$100,000 of the principal of bonds to mature January 1, 1917, and a like amount to mature on the first of each succeeding year. Interest is not to exceed 4½ per cent.

Louisville, Ga., intends issuing \$2,500 of bonds for the purpose of purchasing timber lands.

Milledgeville, Ga., has decided to issue \$22,000 of bonds in aid of the Girls' Industrial School lately mentioned.

Parkersburg, W. Va., is talking of issuing about \$50,000 of 5 per cent. bonds for the purpose of providing for the erection of a city hall, and also for paving and sewerage purposes.

Radford, Va., will issue \$25,000 of bonds for improving streets, water works, etc.

Salisbury, N. C.—Davis & Wiley, bankers, have declared a semi-annual dividend of 6 per cent.

South Pittsburg, Tenn., will probably issue \$50,000 of bonds for street improvements.

The Erlanger land syndicate, Covington, Ky., has declared a semi-annual dividend of 5 per cent.

The Hotel Bon Air Co., Augusta, Ga., intends issuing \$125,000 of bonds for the purpose of enlarging its hotel, or possibly erecting a new one.

The Louisiana Printing Scale Co., New Orleans, La., has declared a dividend of \$2.00 per share.

The New Orleans & Carrollton Railroad Co., New Orleans, La., has declared a quarterly dividend of \$1.50 per share.

The Weckerling Brewing Co., New Orleans, La., has declared a dividend of 6 per cent.

Uniontown, Md.—The Carroll County Savings Bank has declared a dividend of 5 per cent. on permanent deposits and 3 per cent. on weekly and monthly deposits.

BROWN & STERLING, Washington, N. C., want to correspond with dealers and manufacturers of shuttle-blocks and spool-heads.

## To Investors!

I am authorized by English clients to borrow \$125,000 for ten years at six per cent. on coupon bonds, to be secured by trust deed as the prior lien upon one of the largest and finest furnace plants in this country. Central location, in great iron belt of Virginia, on Chesapeake & Ohio Railway. Besides farming lands, 4,100 acres of mining territory. Ore a rich limonite. Railways and equipment, and first-class improvements generally, including all modern machinery and appliances, and about 150 buildings of every description. Limestone, water and timber abundant. Stack 18x85, and chimney 220 feet. Now running 140 tons of pig per day. Property cost over a million. Correspondence desired only with parties ready for business.

THOMAS D. RANSON, Attorney,  
Staunton, Virginia.

JOHN L. WILLIAMS & SON,  
BANKERS,  
—RICHMOND, VA.

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Richmond Stock Exchange  
Quotations.

Reported by JOHN L. WILLIAMS & SON, Bankers,  
Richmond.

RICHMOND, VA., March 18, 1890.	
	BID. ASKED.
North Carolina 4's, 1910.....	96 99
North Carolina 6's, 1919.....	125 126
Virginia New 3's, 1932.....	66½ 67
Lynchburg, Va., 5's, 1915.....	104 ..
Petersburg, Va., 5's, 1918.....	103½ ..
Norfolk, Va., 5's, 1911.....	104 ..
Richmond, Va., 5's, 1922.....	111 ..
Atlanta & Charlotte Ry., 1st 7's, 1907.....	121½ ..
Atlanta & Charlotte Ry. 2d 6's, 1900.....	105 ..
Char., Col. & Aug. R.R. Gen. 6's, 1932.....	109 ..
Georgia Pacific Ry. 1st 6's, 1922.....	112½ ..
Georgia Pacific 2d 5's, 1923.....	82½ 84
Ga. Pacific Income, 5's.....	29 31
Petersburg Railroad Class A 5's, 1926.....	106½ ..
Petersburg Railroad Class B 6's, 1926.....	107½ ..
Rich. & Danville R.R. Gold 6's, 1915.....	116 ..
West. N. Car. R.R. Gen. 6's, 1914.....	94 ..
Northwestern N. Car. R.R. 1st 6's.....	101½ ..
Atlanta & Charlotte R.R. Stock.....	91 ..
North Carolina Railroad Stock.....	103 ..
R. F. & Pot. R.R. Div'd Obligations.....	108 ..
Virginia Midland Railway Stock.....	45 ..
Sloss Iron & Steel Co. Stock.....	67 ..
Sloss Iron & Steel Co. 1st 6's.....	43 ..
Sloss Iron & Steel Co. 2d 6's.....	.. ..

PROPOSALS for building Water Works in Winchester, Ky., will be received until April 10th. Winchester is a town of 8,000 inhabitants. Full particulars can be obtained from F. P. Pendleton, Mayor.

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Banks, Bankers, Corporations and In-  
dividuals (by agreement). Railroad,  
Municipal and other Loans Negotiated.

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Holland, British West Indies and other foreign  
points.

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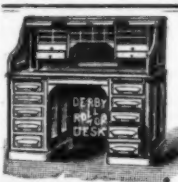
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\*Means machinery is wanted, particulars of which will be found in "Machinery Wanted" columns.

In correspondence relating to matters reported in this paper, it will be a favor if it is stated that the information was gained from the MANUFACTURERS' RECORD.

## ALABAMA.

**Anniston—Car Works.**—Pratt & Schroeder, of Howell, Mich., have submitted a proposition to organize a \$100,000 stock company for the manufacture of logging cars.

**Anniston—Bloomery.**—The Cherokee Iron Co. has put its steel bloomery in operation, and will, it is stated, put in \$10,000 of rolls for the manufacture of steel.

**Bessemer—Car Works.**—The Bessemer Land & Improvement Co. writes that the report of the building of \$1,500,000 car works mentioned in last issue is true, and H. F. De Bardeleben is the promoter.

**Bessemer—Rolling Mill.**—The Bessemer Rolling Mills has awarded contract to Hilliker & Krebs to build a stock house 80x100 feet, and will, it is stated, put in additional puddling furnaces.

**Bessemer—Tool Works.**—The Bessemer Tool Works has been organized with J. N. Jenkins, president; A. J. Robinson, vice-president, and H. C. Blake, general manager, and started works.

**Birmingham—Plumbing, &c.**—C. E. Ecklerle has formed the Alabama Gas Fixture & Plumbing Co.

**Birmingham—Asphalt Mines.**—The Alabama Asphalt, Mining & Land Co. will, it is stated, expend \$25,000 in developing its asphalt mines.

**Birmingham—Bridge.**—The contract for the construction of the 21st street bridge, lately mentioned, has been let to the Smith Bridge Co., of Toledo, O., at \$29,200.

**Bluffton—Rolling Mill.**—A \$200,000 stock company is being organized to build the rolling mill previously reported. \$125,000 have been subscribed. The Bluffton Land, Ore & Furnace Co. can give particulars.

**Bluffton—Factory.**—It is stated that a \$50,000 industry has been secured. The Bluffton Land, Ore & Furnace Co. can furnish information.

**Bluffton—Brick Works.**—Two brick plants will be established. The Bluffton Land, Ore & Furnace Co. can give information.

**Brierfield.**—The Brierfield Land & Improvement Co. is the name of the company lately mentioned as organized with J. G. Murray, president, and E. T. Peters, secretary. The capital stock is \$20,000.

**Calera.**—The Calera Land Co. has issued \$50,000 of bonds.

**Cullman—Coal Mines.**—The Parker Land & Coal Co., previously reported, is developing coal mines in Cullman county.

**Decatur—Saw Mill.**—H. S. Freeman will erect a saw mill at Brown's Ferry.

**Demopolis—Oil Mill.**—W. P. Cheney is organizing the Planters' Co-operative Oil Co. to erect a cotton-seed oil mill.

**Florence—Bridge.**—W. H. Converse, of Chattanooga, Tenn., has received contract to repair the Shoal Creek bridge at \$7,735.

**Fort Payne—Factory.**—The Johnson-Sharpe Manufacturing Co. will put in a 30 horse-power boiler and 25 horse-power engine.

**Fort Payne—Iron Furnace.**—The Bay State Furnace Co., previously reported, has nearly all stock subscribed and will break ground for the building of its iron furnace within 30 days. C. O. Godfrey is president, and H. B. Hill, manager. The president can give particulars.

**Gadsden—Iron Mines.**—The Gadsden (Ala.)

Furnace Co. will probably, after May 1, open new iron mines on its property.

**Greenville—Hub and Spoke Factory.**—A hub and spoke factory is contemplated.

**Huntsville—Cotton Factory and Furnace.**—It is reported that B. J. Curry, general manager of the West Huntsville Land & Improvement Co., has about closed negotiations for the building of an iron furnace and cotton factory at West Huntsville.

**Midway—Cotton Factory.**—The stock company lately mentioned as organized to build a cotton factory will be chartered with a capital stock of \$30,000. Andy Smith can give information.\*

**Montgomery—Electric-light Plant.**—It is reported that a new electric light company will be organized.

**Montgomery—Fertilizer Factory.**—W. K. and Arthur Pelzer and others, of Charleston, S. C., have, it is stated, organized a \$200,000 company to erect fertilizer factory.

**New Decatur—Water Works.**—The Decatur Water Co. is laying 5 miles of additional mains.

**Opelika—Electric-light Plant.**—The Opelika Electric Light & Power Co., mentioned in last issue, has let contract for plant to the Westinghouse Electric Co., of Pittsburgh, Pa.

**Opelika—Bottling Works and Spice Mills.**—J. L. and J. F. Renfro have started bottling works and spice mill.

**Selma—Foundry.**—George Peacock will put a 15 inch shaping machine in his foundry.

**Sheffield—Machine Works, etc.**—Henry C. Gilbert and others, of Terre Haute, Ind., will establish the Sheffield Engine, Boiler & Foundry Works, investing about \$50,000.

**Sheffield—Trunk Factory.**—Terre Haute (Ind.) parties will erect a \$10,000 trunk factory. T. L. Cannon can give particulars.

**Sheffield—Car Works.**—The Sheffield Land, Iron & Coal Co. has received a proposition from Indiana parties to build \$400,000 car works.

**Sheffield—Tool and Fork Works.**—Negotiations are pending to secure the erection of a large tool and fork works. The Sheffield Land, Iron & Coal Co. can give information.

**Sheffield—Iron Mines.**—The Alabama Furnace Supply Co. is opening new iron mines, and will put in machinery. J. V. Allen can furnish particulars.

**Sheffield—Iron Furnaces.**—It is reported that parties have made propositions to build two iron furnaces.

**Stringer—Feed Mill.**—W. M. Stringer will erect a steam feed mill.\*

**Stringer—Tannery.**—The Morgan County Farmers' Alliance will locate the tannery lately mentioned (under Somerville) in Stringer.

**Sylacauga—Iron Furnace.**—The Marble City Land & Furnace Co. has been incorporated, it is reported, to build an iron furnace.

**Sylacauga—Water Works.**—It is reported that water works will be constructed. The mayor can give information.

**Talladega—Iron Furnace.**—It is rumored that the Pennsylvania Iron & Steel Co. has been incorporated with a capital stock of \$300,000 to build an iron furnace.

**Talladega—Grist Mill.**—S. M. Chennault is reported as to erect a grist mill.

**Tuskaloosa—Cotton Compress.**—The Tuskaloosa Cotton Compress Co. has been incorporated with J. R. Maxwell, president; R. G. Reading, vice-president, and H. T. Hill, secretary, to erect the cotton compress lately mentioned. The capital stock is \$20,000.

**Union Grove—Corn Mill.**—Barnard & Redmond will, it is stated, add a corn mill to their cotton gin.

**Uniontown—Water Works.**—It is reported that water works will be constructed. The mayor can give information.

## ARKANSAS.

**Bentonville—Mining.**—It is proposed to organize a company to develop mineral lands.

**Little Rock—Laundry.**—J. Frank & Son will put new machinery in their steam laundry.

**Newport—Electric-light Plant.**—L. Hirsch, mentioned in last issue as receiving electric-light franchise, intends putting in a 650-light incandescent dynamo and probably also a 50-arc dynamo.\*

## FLORIDA.

**Archer—Phosphate Mines.**—Ellis & Hargrove, representing a Citra company, are reported as having optioned phosphate land near Archer.

**Branford—Electric-light Plant.**—Mr. Drew is reported as to put an electric-light plant in his mill.

**Buffalo Bluff—Saw Mill.**—A company is reported as erecting a saw mill between Buffalo Bluff and Satsuma.

**Dunnellon—Phosphate Land.**—A company has purchased 2,000 acres of phosphate land in Citrus county, near Dunnellon, of Senator Mann at \$40,000.

**Florida—Phosphate Land.**—It is reported that W. P. Frost and others, of Charleston, S. C., are organizing a stock company to develop phosphate land in Florida.

**Gainesville—Land.**—J. M. Graham is reported as purchasing 3,000 acres of phosphate land.

**Jacksonville—Land.**—It is reported that E. S. Ellsworth, representing a syndicate, has purchased of Graham & Hubbell, of Savannah, Ga., large tracts of land in Florida.

**Levyville—Iron Furnaces and Mines.**—It is reported that Birmingham (Ala.) capitalists are organizing a \$130,000 stock company to build an iron furnace and develop iron mines near Levyville. Probably incorrect.

**Madison—Phosphate Mines.**—The Madison Phosphate Co., has been incorporated with E. E. West, president; Hugh Paterson, vice-president; Peopoe Forwood, secretary and treasurer; capital stock \$50,000.

**Ocala—Plaster Works.**—B. Arentz & Co. intend putting in a plant for calcining gypsum in such a way that the sulphuric acid it contains may be collected and utilized.\*

**Ocala—Phosphate Mines.**—The Marion Phosphate Co., lately mentioned, has been incorporated by E. W. Agnew, A. R. Lawton, Jr., George J. Baldwin, of Savannah, Ga., and others. The capital stock is \$3,000,000.

**Orlando—Artesian Well.**—An artesian well is being sunk by W. I. McKee on his orange grove.

**Palatka—New Town.**—It is reported that a tract of land lying between Palatka and Francis has been purchased by Syracuse (N. Y.) parties, who will lay it off in town lots.

**Palatka—Brick-yard.**—B. Seaver has purchased, it is reported, 10 acres of land on the Georgia Southern & Florida Railroad near Palatka, and will establish a brick-yard.

**Palatka—Land.**—The Georgia Southern & Florida Railroad Co. (office, Macon, Ga.) have, it is reported, purchased the Reed estate and will probably improve same.

**Pensacola—Vinegar Factory.**—William Hudson has started a cider and vinegar factory.

## GEORGIA.

**Acworth—Shoe Factory.**—J. L. Lemon will start the shoe factory lately mentioned.

**Albany—Flour Mill and Elevator.**—A flour mill with a grain elevator of 40,000 bushels capacity is being erected.

**Albany—Cotton Compress.**—J. H. Rucker will, it is reported, enlarge his cotton compress.

**Americus—Novelty Works, &c.**—C. M. Wheatley & Co. will build the novelty works, iron foundry and machine shop lately mentioned at a cost of \$25,000. All machinery has been contracted for.

**Americus—Land.**—Lawson Stapleton and others have purchased 30 acres of land, and will improve same.

**Americus—Cotton Factory.**—The Farmers' Alliance, previously mentioned as to build a cotton factory, will charter the Southwest Georgia Alliance Manufacturing Co. to establish same. The capital stock is to be \$30,000.

**Americus—Axe Factory.**—The establishment of an axe factory is probable. H. C. Storey can give information.

**Americus—Jewelry Factory.**—C. A. M. V. and B. S. Fricker have incorporated as James Fricker & Bro., to manufacture and deal in jewelry and musical instruments. The capital stock is \$10,000.

**Americus—Bottling Works.**—E. A. Sherlock has purchased the bottling works of Frank Lanier at West Point, and will move same to Americus.

**Atlanta—Lumber Mill, &c.**—Walter S. Bell, operating a lumber mill, and Robert Ernima have incorporated the W. S. Bell Lumber & Investment Co., with a capital stock of \$25,000. It will erect a planing mill.\*

**Atlanta—Ice Factory.**—George H. Holgate will erect an ice factory to have a daily capacity of 35 tons.\*

**Atlanta—Electric-light Plant.**—The Thomson-Houston Electric Light Co. is reported as adding a 1,000 incandescent light dynamo to its plant.

**Atlanta—Motor Works.**—The Clayton Sewing Machine Motor Co. will manufacture its patent motor.\*

**Augusta—Chemical Works.**—The Georgia Chemical Works will, it is reported, enlarge its works.

**Augusta—Glass Works.**—The Augusta Glass Works Co. has been organized with W. N. Mercier, president, to erect the glass works lately mentioned. The capital stock is \$50,000.

**Augusta—Land.**—It is reported that Kansas City parties have purchased 90 acres of land of H. H. Steiner at \$23,000, and will probably develop.

**Augusta—Rubber Factory.**—It is rumored that a rubber factory will be established.

**Barnesville—Planing Mill.**—Turner & Prout, lately mentioned, are improving their planing mill.

**Brunswick—Car-heater Factory.**—C. W. Weickling, Jr., will, it is reported, organize a \$50,000 stock company to manufacture his patent car heater.

**Brunswick—Electric-light Plant, &c.**—The Brunswick Gas, Light & Water Co., recently mentioned, will, it is rumored, double the capacity of its water works, gas works and electric-light plant.

**Canton—Brick-yard.**—J. M. McAfee will start a brick-yard.

**Cartersville—Ochre Works.**—The Cartersville Ochre Co. will enlarge works, as lately stated, and has purchased additional ochre lands. The capital stock is \$300,000.\*

**Cartersville—Ice Factory.**—The Cartersville Ice Factory has, it is stated, been enlarged.

**Cartersville—Bottling Works.**—Jones & Miller have increased the capacity of their bottling works.

**Clarksville—Woolen Mills.**—The Clarksville Woolen Mills has been chartered to operate the Soque woolen mill.

**Columbus—Water Works.**—The Rose Hill Water Co. has been incorporated by G. G. Jordan, L. H. Chappell, G. M. Clapp and others to construct in the Rose Hill annex the water works lately mentioned. The capital stock is \$10,000.

**Columbus—Vinegar Factory.**—F. J. Kohn will start the vinegar factory lately mentioned.

**Columbus—Brick-yard.**—J. T. Bates has put new machinery in his brick-yard.

**Columbus—Sewerage System.**—Williamson & Earl will prepare plans for 20 miles of sewers.

**Concord—Fertilizer Factory.**—The Concord Variety Works contemplates erecting the fertilizer factory mentioned in last issue on the completion of its works.

**Cordele—Shoe Factory.**—J. W. Brumby, of Athens, and others, will charter a company to establish a shoe factory in Cordele.

**Cordele—Ice Factory.**—The Cordele Ice Co. has let contract for erecting its factory to E. Fisher. The Ring Refrigerating & Ice Machine Co., of St. Louis, Mo., has contract for machinery.

**Cordele—Sash, Door and Blind Factory.**—J. W. Stapleton will start the sash, door and blind factory lately mentioned.

**Dalton—Cotton Factory.**—A stock company will be formed by H. A. Lowry and others to erect another cotton factory.

**Dalton—Gas Works.**—The Dalton Gas Co. has increased capital stock to \$21,000.

**Dawson—Furniture Factory.**—F. A. Ruggles has organized the \$25,000 stock company mentioned in last issue to manufacture furniture, and will erect factory this summer.\*

**Eatonville.**—Efforts are being made to organize a land improvement company.

**Eatonville—Cotton Factory and Compress.**—The erection of a cotton compress and a cotton factory is probable.

**Ellijay—Saw and Planing Mill.**—The Evans Land & Lumber Co. has been incorporated at Chattanooga, Tenn., by Webster Young, J. H. McCarthy, J. H. McLean and others, have purchased the Evans saw and planing mill, and will, it is stated, enlarge.

**Emerson.**—The West Emerson Land Co. is reported as organized with a capital of \$30,000.

**Fort Valley.**—The Fort Valley Investment & Improvement Co. has been organized with a capital stock of \$25,000.

**Fort Valley—Water Works.**—It is reported that contract for building the water works previously reported has been let to Jennings & Bamberg, of Bamberg, S. C. J. A. Houser can give information.

**Fort Valley—Artesian Well.**—An artesian well is to be sunk.

**Griffin—Cotton Compress.**—All the stock has been subscribed to build the cotton compress mentioned in last issue. Captain Fitch can give information.

**Hall's Mill—Mining.**—The Baltimore company recently mentioned as having purchased mineral lands, has, it is stated, commenced developing.

**Hawkinsville—Shingle Mill.**—J. S. Owen & Co. have purchased machinery and will start the shingle mill mentioned in last issue.

**Hazlehurst—Electric-light Plant and Lumber Mill.**—C. Bewick & Co., lately mentioned as erecting a lumber mill, are building a double saw mill 235x37 feet, capacity about 200,000 feet per 10

hours; planing mill 100x60 feet, and 4 dry-kilns. The Lane & Bodley Co., of Cincinnati, Ohio, have contract for saw mill machinery; Huyett & Smith Manufacturing Co., of Detroit, Mich., for dry-kilns, and contract for planing mill not yet awarded. They expect to put in an electric-light plant in the fall.

Leary—Oil Mill and Fertilizer Factory.—It is reported that a company is being formed to erect a cotton-seed oil mill and fertilizer factory.

Lithonia—Oil Mill and Bagging Factory.—A cotton-seed oil mill and a bagging factory will probably be erected.

Lumpkin—Oil Mill and Fertilizer Factory.—A movement is on foot to erect a cotton-seed oil mill and fertilizer factory.

Macon—Land.—Samuel Weichselbaum has purchased 235 acres of land in East Macon.

Macon—Machine Works.—A proposition has been made by I. A. Davis to establish water wheel and mill machinery works in Macon.

Macon—Laundry.—It is stated that another steam laundry will be started.

Madison—Variety Works.—The Madison Variety Works has put in new machinery, increasing capacity.

Montezuma—Handle Factory.—R. Montfort & Son, of Butler, contemplate moving their handle and hame factory to Montezuma.

Montezuma—Brick-yard.—Parties are considering the leasing of De Vaughn's brick-yard and putting in new machinery.

Preston—Hub and Spoke Factory.—It is reported that a \$10,000 hub and spoke factory will be started.

Richland—Electric-light Plant, &c.—The erection of an electric-light plant and the building of water works, cotton-seed oil mill and fertilizer factory is projected. The Americus Investment Co., of Americus, can give information.

Rome—Flour Mill.—A. L. Camp has purchased the flour mill of the Etowah Furniture Co.

Rome—Excelsior Factory.—Frank McGinnis is moving his excelsior factory, lately mentioned (under Forestville), to Printup City, and will add a corn mill and probably a machine for carding rags, to be used in making mattresses. The factory will be operated by the Printup City Excelsior & Mattress Co.\*

Rome—Ice Factory.—The Rome Ice Manufacturing Co. will put in a new Boyle ice machine.

Rome—Furniture Factory.—The factory of the Etowah Furniture Co., lately mentioned, has been purchased by J. Cundell & Co. for \$12,100. They will enlarge to double capacity and put in additional machinery; also probably add automatic sprinklers for fire protection.\*

Rome—Iron Furnace.—Charles A. Lyerly Edward Watkins, L. S. Colyar and others, of Chattanooga, Tenn., who organized the Rome Iron Co., as previously stated, have, it is reported, secured an option on 2,500 acres of land owned by the Rome Land Co., and are considering the construction of a second iron furnace.

Savannah—Medicine Factory.—The Continental Chemical Co. has been incorporated by S. K. Platshek and H. H. Livingston, with a capital stock of \$5,000, to manufacture drugs, chemicals, etc.

Savannah.—The Coast Land Co. has been incorporated by J. R. Young, M. L. Byck and E. F. Lovell, with a capital stock of \$15,000.

Taliaferro—Iron Mine.—Dean & Thompson, of Birmingham, Ala., are reported as developing an iron mine.

Trenton—Coal and Iron Lands.—The sale of coal and iron lands to the New England Co., which intends building a new town, as previously reported, has been confirmed.

Washington—Car Works, etc.—The Washington Construction Co., reported in last issue as incorporated, has authority to manufacture cars and machinery, also deal in real estate. The capital stock is \$500,000.

Washington—Electric-light Plant and Water Works.—The erection of an electric-light plant and the construction of water works is projected.

Waynesboro—Cotton Compress.—A cotton compress will probably be erected.

#### KENTUCKY.

Clay City—Iron Furnace, etc.—The building of an iron furnace, a spoke and handle, furniture, woodworking and ice factories is contemplated. The Kentucky Union Railway Co. can give information.

Corydon—Coal Mine.—F. M. Jackson, R. A. Quinn, H. C. Wise and B. Cleveland have organized a company, leased the Corydon coal mine and will develop.

Covington—Electric light Plant.—The Homestead Lot Co., mentioned in last issue, contemplates erecting an electric-light plant.\*

Covington—Cigar Factory.—G. G. Broomall is repairing his cigar factory mentioned in last issue as burned.

Danville—Ice Factory.—A. G. Whitley is forming an \$18,000 stock company to erect the ice factory lately mentioned.

Danville—Ice Factory.—G. M. Bibb is interested in the ice factory lately mentioned.\*

Frankfort.—A bill has been introduced in the legislature incorporating the Union Investment Co. with Atilla Cox, J. W. Green, William Tillman and others as incorporators to deal in real estate, bonds, stocks, &c.

Georgetown—Ice Factory.—A \$10,000 stock company has been organized by N. S. Offutt, J. A. Bell and J. M. Penn to erect the ice factory lately mentioned.

Greenup—Stove Foundry.—It is reported that a company will be organized to manufacture stoves.

Harrodsburg—Ice Factory.—The Crystal Ice Co. has been organized with W. H. Riker, president, and C. D. Thompson, secretary, to erect an ice factory to have a daily capacity of 7 tons. The capital stock is \$10,000.

Henderson—Ice Factory.—It is reported that another company has been formed to erect a \$20,000 ice factory.

Henderson—Ice Factory.—The Crystal Ice Co. is the company previously reported as organized to erect an ice factory.

Henderson—Machine Works.—Edwin Hodge, C. H. Dishman and others have incorporated the Western Fence & Machine Co. with a capital stock of \$30,000.

Lexington—Electric-light Plant.—The Central Electric Co. has let contract for the incandescent-light plant mentioned in last issue.

Louisville—Woolen Mill.—The Beargrass Woolen Mills is putting in new machinery.

Middlesborough—Steel Plant and Rolling Mill. It is stated that the foundation is being laid for the steel plant and rolling mill previously mentioned, and that a building 520x300 feet will be erected. The Middlesborough Town Co. can give particulars.

Middlesborough—Gas Works.—The Kentucky Fuel Co. will, it is reported, erect gas works. The Middlesborough Town Co. can give information.

Newport—Pipe Works.—Efforts are being made to secure the location in Newport of the works of the Standard Pipe & Steel Co.

Nicholasville.—The Nicholasville Contract & Investment Co. has been organized with J. S. Bronaugh, president; E. R. Sparks, vice-president, and E. B. Hoover, secretary. The capital stock is \$500,000.

Olmstead—Flour Mills.—Boyd Bros. have sold their flour mill to a stock company, and will, it is stated, build a 75-barrel mill at some other point.

Owensboro—Brick and Tile Works.—Kleymeyer & Klute, of Henderson, are experimenting with fire clay found near Owensboro, and will locate brick and tile works if tests are satisfactory.

Paris—Land.—It is reported that O. H. Harrison, of Louisville, representing a syndicate, has purchased the Dillingham property of 130 acres for \$50,000, and will lay it off in town lots.

Pineville—Brick Works.—The Pineville Brick Co., lately mentioned as to establish brick works, has been incorporated by J. S. Ray, I. F. Mardis and W. W. Barclay. The capital stock is \$20,000.

Pineville—Bridge.—A new bridge will be built across Straight creek. General Duffield is receiving bids.

Pineville—Coal Mines.—The Bell County Coke & Improvement Co., mentioned in last issue, will, it is stated, open coal mines at once.

Princeton—Flour Mill.—R. U. Kevil & Co. have recently purchased a flour mill and will probably enlarge same.

Stanford—Electric-light Plant.—The erection of an electric-light plant is included in the issuance of \$20,000 of bonds to construct water works, mentioned in last issue.

Winchester—Water Works.—F. P. Pendleton, mayor, will receive proposals until April 10 for constructing the water works previously reported. The population is 8,000.

Winchester.—The Fairfax Land & Investment Co. has been incorporated with J. G. Givens, president; J. M. Benton, vice-president, and E. S. Jowett, Jr., secretary. The capital stock is \$30,000.

Winchester.—The West Park Land Co. has been incorporated with T. J. Quisenberry, president; W. H. Tucker, vice-president, and J. M. Wheeler, secretary. The capital stock is \$50,000.

Winchester.—The West End Land Co. has been incorporated with J. H. Frazer, president; W. A. Attersall, vice-president, and J. M. Hodgkin, secretary. The capital stock is \$50,000.

Winchester.—The Citizens' Investment Co. has been incorporated with W. R. Lane, president; J. W. Ragland, vice-president, and F. B. Hodgkin, secretary. The capital stock is \$20,000.

#### LOUISIANA.

Gretna—Packing house.—Frederick Peters and others, of New Orleans, are reported as to organize a stock company to locate a pork-packing establishment in Gretna.

Gretna—Saw and Shingle Mills.—The Louisiana Lumber Co. is building the large shingle mill previously reported as to be erected by Western parties. It is also erecting a saw mill 240x62 feet, to have a daily capacity of 100 M feet; the shingle mill is to be 32x120 feet, capacity 500 M per day, and boiler room 56x82 feet, to contain 4 boilers and 3 engines. The estimated cost is \$100,000.

Monroe—Dry-kiln.—F. Vollman is erecting a dry-kiln at his saw mill.

New Orleans—Refrigerating Plant.—The Fort Worth Dressed Beef & Packing Co. writes that the report lately mentioned that it would purchase an interest in the New Orleans Ice Manufacturing Co. and establish a refrigerating plant is without foundation.

New Orleans.—J. A. Morris, of Luling; C. E. Rice, F. M. Rogers and others have incorporated the Morris Building & Land Improvement Association, Limited, with the privilege of manufacturing. The capital stock authorized is \$1,000,000.

White Castle—Sugar Factory.—The White Castle Lumber & Shingle Co. will, it is rumored, erect a central sugar factory.

#### MARYLAND.

Arlington—Land.—Dr. C. G. Hill, W. P. Webb and others have organized a company and purchased the Wilhelm estate at Arlington for \$80,000; also taken options on adjacent lands and propose laying off in lots.

Baltimore—Electric Works.—The Electrical Construction & Manufacturing Co. has been incorporated by Charles Selden, C. H. Jones, Jr., C. W. Huntington and others for the manufacture and sale of electrical supplies, construction of electric-light plants, etc. The capital stock is \$35,000.

Baltimore—Elevator.—It is stated that the Baltimore Elevator Co. will build an elevator at Canton to have a capacity of 1,000,000 bushels of grain in the place of the one previously reported as burned.

Baltimore—Ice Factory.—Robert M. Spedden, John Solter, B. F. Leitch and others have incorporated the Crystal Ice Manufacturing Co. for the manufacture and sale of ice. The capital stock is \$100,000.

Baltimore—Paper Board Factory.—A bill has been introduced in the legislature at Annapolis to authorize the Paper Board Manufacturing Co. to issue bonds.

Baltimore—Publishing.—The H. L. Harvey Publishing Co. has been incorporated by H. L. Harvey, G. P. Steinbach, T. I. Elliott and others with a capital stock of \$25,000.

Baltimore—Real Estate.—The Spring Garden Real Estate Co. has been incorporated by W. A. Hanway, J. P. P. Jones, S. J. Martenet and others with a capital stock of \$25,000.

Baltimore—Land.—J. F. Waggaman and Campbell Carrington, Washington, D. C.; E. C. Carrington and others have incorporated the New Baltimore & Ohio Land & Improvement Co. The capital stock is to be \$1,000,000.

Baltimore—Gas Works.—A bill has been introduced in the legislature at Annapolis to incorporate the Co-operative Gas Co. with H. S. Zell, J. L. Reed, Henry King and others as incorporators to establish gas works, the capital stock to be \$2,000,000.

Baltimore—Bottling Works.—E. B. Bruce, J. M. Dukehart, G. L. Wampler and others have incorporated the Avon Bottling Co. The capital stock is \$6,000.

Bennings, D. C.—Cold-storage Plant, etc.—W. E. Clarke will, it is stated, erect an abattoir and cold-storage warehouse, 12x198 feet, to cost \$25,000.

Cambridge—Water Works.—C. F. Dieterich, of New York, and J. R. Clarke, of Baltimore, will, it is stated, build water works if a sufficient supply is found.

Chestertown—Basket Factory.—The American Straw Board Co. is reported as about to establish a factory for the manufacture of baskets from straw board, with an annual capacity of 5,000,000.

Clayton—Saw Mill.—A stock company is organizing, it is reported, with a capital stock of from \$10,000 to \$20,000, to erect a saw mill.

Cumberland—Brick-yard.—The Cumberland Brick Co. has been incorporated by J. H. Percy, D. W. Sloan, D. Houck and others. The capital stock is \$15,000.

Cumberland.—The bill to authorize the city of Cumberland to issue \$70,000 of bonds has been signed by the Governor and become a law. The mayor can give information.

Easton—Creamery.—The Farmers' Alliance is considering the location of a creamery at Easton. Dr. J. C. Earle is interested.

Frederick—Hosiery Factory.—The Union Manufacturing Co. is arranging to put in 50 additional knitting machines and other machinery. It is also erecting a dye house.

Freedom—Woolen Mill, etc.—N. W. Steele has purchased the woolen mill, water-power and other property of J. M. Melville for \$7,900.

Knoxville—Furnace.—It is reported that Colonel King, representing a New York city syndicate, has been prospecting at Knoxville with

a view to purchasing the old Knoxville coke iron furnace.

Port Deposit—Shoe Factory.—It is reported that negotiations are pending between Port Deposit parties and Charles Heiser, of Baltimore, for the removal of his shoe factory to Port Deposit.

Salisbury—Canning Factory.—W. B. Tilghman is in correspondence with capitalists who contemplate locating a canning factory in Salisbury.

Sparrow's Point—Iron Furnace.—The Pennsylvania Steel Co., lately mentioned as to commence work on a large shipyard, has blown in the second of its four new iron furnaces, previously reported. The capacity is about 250 tons per day.

Washington, D. C.—The Douglas Cutter Saw Co. will hold a meeting in the Post Building on April 8th for the purpose of increasing capital stock to \$1,000,000.

Washington, D. C.—Electric-light Plant.—The Washington Electric Lighting Co. is reported as applying for a charter with J. G. Gardner, Samuel M. Bryan and others as incorporators. The capital stock is to be \$500,000.

Washington, D. C.—Machine Works.—The Lanston Type Machine Co., previously reported as to enlarge its works, has leased a building and will put in machinery to increase capacity.

#### MISSISSIPPI.

Aberdeen—Mattress Factory.—Mr. Boatner has started the mattress factory mentioned last week.

Aberdeen.—The Monroe Hedge Fence Co. has been organized with W. B. Walker, president, and W. G. Sykes, secretary. The capital stock is \$70,000.

Corinth—Woolen Mill.—The Alcorn Manufacturing Co. has, it is stated, increased the capacity of its mill.

Friar's Point—Box Factory.—The stock company lately mentioned as to erect a box factory has been organized as the Friar's Point Box & Woodwork Co., with T. S. Aderholdt, president, and H. W. Sessions, secretary. The capital stock is \$50,000.

Greenwood—Bridge.—It is proposed to construct a bridge across the Yazoo river.

Meridian—Saddlery.—Gurley Bros. & Co. will, it is reported, enlarge their saddlery.

Nettleton—Saw Mill.—The Nettleton Manufacturing Co. operates the saw mill mentioned in last issue as erected by Indiana parties.

Vicksburg—Cotton Compresses.—It is reported that the Vicksburg Cotton Compress Co. and the Planters' Cotton Compress Co. will consolidate.

Vicksburg—Ice Factory.—It is reported that another ice factory with \$50,000 capital will be started.

#### NORTH CAROLINA.

Archdale—Shoe Factory.—The Tomlinson Manufacturing Co. writes that it has added new machinery to shoe factory, and that the removal of same to Greensboro, mentioned in last issue, is not a certainty.

Asheville—Brick and Tile Works.—The Buncombe Brick & Tile Co. is the name of the company mentioned in our issue of March 1 as organized. It has purchased machinery for works.

Best—Flour Mill.—The report lately referred to that H. B. Rossel would build a flour mill is incorrect.

Bryson City—Hoop Factory.—A barrel hoop factory is reported as to be started. A. B. Allison can give information.

Charlotte—Cotton Mill.—The Ada Manufacturing Co. has increased the capacity of its cotton mills by the addition of new machinery.

Charlotte—Cotton Mill.—New machinery has been put in the Victor Cotton Mills.

Charlotte—Reduction Works.—Thomas A. Edison intends, it is stated, establishing reduction works if the investigations of mineral lands now being conducted prove satisfactory.

Clinton—Planing Mill and Dry-kiln.—Sewart & Hines are erecting a planing mill with capacity of from 12 to 15 M feet per day; also a dry-kiln.

Columbus County—Timber Land.—It is reported that Frost & Robinson, of Michigan, have purchased 10,000 acres of timber land.

Cowarts—Silver Mine.—Cook & Cogdell, recently reported (under Jackson county) as developing a silver mine, are located at Cowarts.

Durham—Mattress Factory.—A mattress factory has been started by William Anderson, of Weldon.

Durham—Fertilizer Factory.—The Durham Bull Fertilizer Co. has secured other quarters for its fertilizer factory, mentioned elsewhere in this issue as burned.

Enochville—Flour Mill.—The erection of a roller flour mill is talked of.

Fayetteville—Underwear Factory.—John Roddick & Co. have started an underwear factory.

Fayetteville—Machine Shops.—It is reported that the capacity of the machine shops of the Cape Fear & Yadkin Valley Railroad Co. (office, Greensboro, N. C.) will be doubled.

Goldsboro—Lumber Mill.—The Enterprise Lumber Co., mentioned in last issue as putting in



new engine, also added new planers and will enlarge its plant.

**Goldsboro—Gas Plant.**—A gas plant will probably be put in the Goldsboro Insane Asylum. Dr. J. F. Miller can give information.

**Greensboro—Land.**—R. T. Gray, T. C. Worth, E. P. Wharton and others have organized the South Piedmont Land & Improvement Co. with a capital stock of \$25,000, purchased 192 acres of land for \$30,000, and will lay off same into town lots.

**Greensboro—Saw Mill.**—J. H. Bernard will erect a saw mill.

**Greensboro.**—R. T. Gray and P. M. Wilson, of Raleigh; Worth & Wharton and others have organized the Greensboro Land & Improvement Co. with a capital stock of \$50,000.

**Greensboro—Cotton and Woolen Mill.**—A New England company offers, it is stated, to move its cotton and woolen mill to Greensboro provided satisfactory inducements are extended. The Greensboro Land & Improvement Co. can give information.

**Greenville—Cotton Factory.**—A cotton factory is projected.

**Hendersonville.**—The Hendersonville Land & Improvement Co. has been incorporated by G. H. P. Cole, J. Williams, J. Toms and others. The capital stock is \$50,000.

**Hickory—Woodworking Factory.**—Latta & Beard, lately mentioned, are erecting a factory for the manufacture of tobacco hogheads and a variety of small hardwood work.

**Hickory—Lumber Mill.**—W. E. Burtless, Robert Winkler, F. R. Whiting and others have incorporated the Catawba Lumber Co. for the manufacture and sale of lumber. The capital stock is to be \$50,000.

**High Point—Canning Factory.**—The High Point Canning Co., mentioned in last issue, will put in new machinery.\*

**Lincolnton—Cotton Factory.**—A stock company has been organized to operate the Elm Grove cotton factory, mentioned in last issue. Machinery will be put in. George L. Phifer can give information.\*

**Marion—Land.**—J. S. Carr, of Durham, S. H. Wiley & Co., of Salisbury, O. H. Blocken and others are the purchasers of the \$50,000 of land lately mentioned.

**Mount Airy—Timber Land.**—P. Macnaughton, lately mentioned, writes that he has purchased timber land, but is not aware of the sale of land to an English syndicate, as stated.

**New Berne—Canning Factory.**—Moore & Brady have doubled the capacity of their oyster canning factory.

**Raleigh—Ice Factory.**—Leach & Andrews, previously reported as contemplating the building of an ice factory, have let contract for erecting same to the North Carolina Car Co. Contract for machinery of capacity from 15 to 20 tons per day has also been let.

**Raleigh—Lime-kiln.**—It is stated that a lime-kiln will be erected.

**Reidsville—Tobacco Factory.**—A. H. Motley & Co. will build a new boiler-house and put in another 80 horse-power boiler at their tobacco factory.

**Salisbury—Cotton Factory.**—Another cotton factory is reported as to be established.

**Sanford—Stone Quarries.**—W. H. Smith & Co., of Wilmington, mentioned in last issue (under Moore county), are opening brownstone quarries and will put in machinery when tests determine what is required.

**Shelby—Furniture Factory.**—D. D. Suttle contemplates starting a furniture and spoke and hub factory.\*

**Southport—Brick and Tile Works.**—J. A. Pullen, W. H. Pyke and William Weeks have organized the Southport Brick & Tile Co. to operate brick and tile works at Walden creek. The capital stock is \$30,000.

**Statesville—Flour Mill.**—It is reported that J. J. Mott, J. J. Sullivan and others have organized a stock company to build a roller flour mill.

**Sylva—Silver Mines.**—The address of Wolf & Hall, lately mentioned (under Jackson county) as developing a silver mine, is Sylva.

**Tarboro—Cotton Factory.**—The Tarboro Cotton Factory, lately mentioned, will, it is reported, increase capital stock to \$40,000.

**Washington—Woodworking Factory.**—Brown & Sterling have recently put in a saw mill and will increase capacity for manufacturing shuttle blocks, spool heads, etc.

**Winston—Fertilizer Factory.**—It is reported that a company for the manufacture of fertilizers is being organized.

**Winston.**—E. H. Stewart, of Roanoke, Va., is president of the Piedmont Land Co., mentioned in last issue as organized.

**Winston—Fertilizer Factory.**—Efforts are being made to establish a fertilizer factory.

**Winston—Planing Mill.**—John and Samuel Spach have purchased the planing mill property of Miller & Son.

## SOUTH CAROLINA.

**Aiken—Water Works.**—Efforts are being made to establish water works. P. A. Emanuel is interested.

**Anderson—Water-power.**—Hon. Patrick Calhoun, of Atlanta, Ga., is reported as investigating the water-power at Trotter's Shoals, at Millwood, probably with a view to developing.

**Andersonville—Saw Mill.**—A saw mill has been erected by J. H. Price.

**Atkins—Saw and Planing Mill.**—Rankin & Bridgers will erect a planing mill, also a dry-kiln, to have a daily capacity of 20 M feet, and contemplate building a saw mill at some other point.\*

**Barnwell—Sash and Blind Factory.**—A sash and blind factory will be established, it is reported.

**Bath—Kaolin Mine.**—T. G. Lamar has purchased of the Hill & Johnson Co. kaolin land and will develop.

**Blacksburg—Brick yard.**—A. D. Holler, of Rock Hill, contemplates moving his brick machinery to Blacksburg.

**Blacksburg—Brick yard.**—S. G. Robertson is reported as making arrangements to commence the manufacture of brick.

**Charleston—Artesian Well.**—The Central Ice Co. is sinking a third artesian well.

**Charleston—Factory.**—A party representing a syndicate will propose, it is reported, to establish and operate a factory, the capital stock of which is to be \$1,000,000, provided the citizens donate \$100,000.

**Chester—Signal Factory.**—The Berry Signal Lock & Target Co. has been incorporated by J. D. Berry, L. B. Nichols, J. K. Henry and others to manufacture lock signals, targets, etc. The capital stock is \$15,000.

**Columbia—Timber Lands.**—G. W. Hopkins, of Bear Lake, Mich., and Charles Mathewson, of Bay City, Mich., are prospecting in South Carolina, it is stated, with a view to purchasing 100,000 acres of timber land.

**Columbia Spool-silk Factory.**—J. C. Iredell is reported as in correspondence with a Massachusetts party relative to the location of a spool silk factory in Columbia.

**Easley—Saw Mill.**—L. K. Kelly will add a saw mill to his cotton gin.

**Greenville—Belting Factory.**—G. B. Rowbottom, of Boston, Mass., has been prospecting in the South for a site for a leather belting factory, and proposes to locate at Greenville, provided the citizens furnish \$25,000, half the capital stock.

**Jefferson—Mining, Land, etc.**—The Chesterfield Mining & Land Improvement Co. has been incorporated by C. L. Evans, G. J. Redfern and W. F. Stevenson to develop and operate mines and deal real estate. The capital stock is to be \$50,000.

**Lancaster—Saw and Planing Mill.**—The Lancaster Manufacturing Co., previously reported as adding shuttle-block machinery to its spoke and handle factory, will erect, it is reported, a saw and planing mill and probably manufacture sash, doors and blinds.

**Lancaster—Oil Mill and Fertilizer Factory.**—A cotton seed oil mill and fertilizer factory are contemplated.

**Newberry—Oil Mill.**—The Farmers' Alliance of Newberry county contemplates erecting a cotton-seed oil mill on the co-operative plan.

**Prosperity—Car Coupler Factory.**—The George G. Lane Car Coupling Co. has been incorporated by G. G. Lane, R. L. Luther, J. M. Wheeler and others. The capital stock will be \$10,000.

**Rock Hill—Candy and Canning Factory.**—The Davis Candy & Canning Factory will be enlarged, as stated in last issue.

**Rock Hill—Electric-light Plant.**—A stock company is being organized, it is stated, to erect an electric-light plant.

**Spartanburg—Iron Foundry.**—Beard & Long, of Greenville, have submitted a proposition to establish an iron foundry.

**Spartanburg—Oil Mill and Fertilizer Factory.**—The cotton-seed oil mill and fertilizer factory lately mentioned as to be established by the Spartanburg Cotton-seed Oil & Fertilizer Co. will be known as the Produco Mills. The capital stock will be increased from \$25,000 to \$50,000.

**Sumter—Machine Shop.**—Edgar Skinner will establish the machine shop mentioned in last issue.

**Winnaboro—Canning and Pickling Factory.**—The establishment of a canning and pickling factory is contemplated.

## TENNESSEE.

**Athens—New Industries.**—It is rumored that the syndicate represented by Daniel Meyers, of Cleveland, Ohio, lately mentioned as purchasing the Starr's mountain iron property, will invest \$500,000 in new industries.

**Bon Air—Coal Mines.**—The Bon Air Coal & Coke Co. is having plans prepared for a tail-rope haulage plant to have a capacity of 500 tons daily, to increase output of mines. It expects to put in a 150 horse-power engine and three 80 horse-power boilers.

**Bradford—Saw Mill.**—J. T. Cain & Son will put shingle and lath machinery in their saw mill, mentioned in last issue.\*

**Chattanooga—Water Works.**—The Mountain Spring Land Co. writes that it expects to construct the water works lately mentioned as soon as possible.

**Chattanooga—Machine Works.**—The Truxal & Dunmeyer Machine Co. has been incorporated to succeed Truxal & Dunmeyer, with B. Truxal, Lew Dunmeyer, J. B. Nickling and others as incorporators. It will probably enlarge works and put in new machinery. The capital stock will probably be \$100,000.

**Chattanooga—Mining, &c.**—D. W. R. Polk, of Cartersville, Ga.; R. V. Hardman, of Atlanta, Ga.; J. L. Divine, of Chattanooga, and others have incorporated a \$1,000,000 stock company, which is privileged to develop mines, operate furnaces, foundries, factories, etc.

**Chattanooga—Lightning-rod Factory.**—J. R. Bryant, of Crawfordsville, Ind., will make efforts to form a stock company for the manufacture of the Crestlite lightning conductor.

**Chattanooga—Land.**—A company formed with R. D. Hatheway, of Austin, Minn., president; T. A. Frierson, vice-president, and C. J. Thomas, secretary, has purchased the McGuire tract of 16½ acres of land for \$110,000, and will improve and develop same.

**Chattanooga—Brass Foundry.**—The Eagle Brass Foundry is reported as to erect three additional brass furnaces.

**Cleveland—Ice Factory.**—It is reported that an ice factory will be built.

**Cleveland—Stove Works.**—It is reported that the Cleveland Stove Works will double its capacity.

**Dyersburg—Electric-light Plant.**—T. H. Sheppard will erect the electric-light plant mentioned in last issue.

**Erwin—Iron Mines.**—Thomas C. Blair (P. O. Box 279, Roanoke, Va.) will organize a stock company to operate the iron mines now being developed on the Hannum property, as stated in last issue.

**Harriman (P. O. Keathley)—Brick yard.**—Goodall Bros., of Sanford, Me., will establish the brickyard lately mentioned, and have purchased all machinery.

**Harriman (P. O. Keathley)—Electric-light Plant, &c.**—The East Tennessee Land Co., of 95 Broadway, New York city, will erect the electric-light plant mentioned in last issue; also construct the gas and water works lately reported.

**Harriman (P. O. Keathley)—Wagon Factory.**—It is reported that a wagon factory will be erected. The East Tennessee Land Co. can give information.

**Jackson—Implement Factory.**—It is reported that W. N. Fife, of Bell's Station, will start the manufacture of his patent cultivator.

**Jellico—Coal Mines.**—It is rumored that English and New York capitalists will buy out the Southern Jellico Coal Co., lately mentioned as formed by companies operating in the Jellico region.

**Johnson City—Iron Furnaces and Mines.**—A. Monroe, of Lawrence, Kans., mentioned in last issue as representing a syndicate which intended to invest in iron ore lands and build iron furnaces, writes that his company expects to do something of the kind, but has not definitely decided at present.

**Knoxville—Land.**—The Beaman's lake property of 100 acres has been purchased by a Kentucky syndicate for \$100,000 and will be improved.

**Knoxville—Land.**—The Lonsdale Land Co., lately mentioned, has purchased the old Rodgers place for \$8,000.

**Knoxville—Brick and Terra-cotta Works.**—The company mentioned last week as to start a brick and terra-cotta works has been incorporated as the Knoxville Stoneware, Sewer-pipe & Tile Co.

**Knoxville—Land.**—Samuel Marfield and others have purchased the J. L. Thomas tract of land for about \$30,000.

**Lascassas—Silver Mine.**—The Woodbury Mining Co., of Woodbury, is, it is stated, developing a silver mine.

**Loudon—Canning Factory.**—Mr. Griffin is endeavoring to secure the erection of a canning factory by a Northern party.

**Madisonville—Cotton and Woolen Mills.**—It is reported that a Philadelphia (Pa.) party is investigating with a view to erecting a cotton factory and woolen mill.

**Memphis—Spoke Factory.**—It is reported that a new spoke factory will be started.

**Memphis—Power-house.**—The Thomson-Houston Electric Light Co., has, it is reported, increased capital stock \$100,000, and will erect a power-house to furnish power to the street railways.

**Memphis—Stove Works.**—T. J. Latham is president; Michael Burke, vice-president, and P. L. Gray, secretary, of the Woodbridge Stove Co., lately mentioned. It will erect a foundry 75x200 feet, and a moulding room 127x250 feet.

**Memphis—Tobacco Factory.**—It is reported that H. C. Porter, of Newbern, will move his tobacco factory to Memphis.

**Middleton—Lumber Mill.**—The Cypress Lumber Co. will erect a saw mill.

**Morristown—Manufacturing, &c.**—It is reported that \$500,000 will be invested in real estate and manufacturing industries. The Montvue Land Co. can give information if true.

**Nashville—Brewery.**—The Christian-Moertlin Brewing Co., previously mentioned as purchasing the brewery of the Nashville Brewing Co. and to enlarge same, will remodel, giving a frontage of 210 feet, and a height ranging from 3 to 5 stories. A 60-ton ice machine will be put in. The capacity will be 50,000 barrels per annum.

**Nashville—Flour and Grist Mill, &c.**—L. C. Sheppard and Hugh McBarley, operating a grist mill, have purchased the old zinc works property and will remodel for the manufacture of excelsior; also for a flour and grist mill.

**Nashville—Foundry and Machine Works.**—The Waters-Allen Foundry & Machine Works, lately mentioned as chartered, will enlarge its works.

**Nashville.**—The Edgefield Land Co. has been incorporated by A. A. Mellier, Jr., W. M. Long, L. Gardner and others.

**Nashville—Printing Office.**—The Brandon Printing Co. will erect a new six-story building to cost about \$20,000 for its printing office.

**Rockwood—Iron Furnaces.**—It is reported that Major Brewer, of Chattanooga, is preparing site for the building of two iron furnaces.

**South Pittsburgh—Street Improvements.**—The city will probably issue \$50,000 of bonds for street improvements. The mayor can give information.

**Spring City—Electric-light Plant.**—A Mr. Wilson, of Kentucky, contemplates erecting an electric-light plant.

**Wallview—Land.**—The Wallview Land & Improvement Co. has been incorporated, purchased 50 acres of land and will improve.

**Washington—Brick and Tile Works.**—Robinson & Locke will, it is reported, start brick and tile works.

## TEXAS.

**Abilene—Collar Factory.**—N. Porter has added a collar factory to his saddlery.

**Abilene—Grain Elevator.**—It is proposed to organize a stock company to build a grain elevator.

**Alvin—Land.**—D. L. Slataper is negotiating for 8,000 acres of land for colonization.

**Austin—Artesian Well.**—An artesian well will be sunk at the State Insane Asylum.

**Ballinger—Electric-light Plant.**—The erection of an electric-light plant is projected. A. S. Reed can give information.

**Ballinger—Telephone Lines.**—The Ballinger & Menard Telephone Co. has been incorporated by D. P. Gay, A. S. Reed, J. W. Frances and others to operate telephone lines. The capital stock is \$10,000.

**Brenham—Ice Factory.**—Heber Stone is reported as improving his ice factory.

**Brownwood—Woolen Mill.**—It is stated that the erection of a woolen mill is contemplated.

**Corsicana—Oil Mill.**—George Leder has made a proposition to erect a cotton-seed oil mill.

**Dallas—Foundry and Machine Shop.**—The Mosher Manufacturing Co. will erect a foundry and machine shop.

**Dallas—Iron Safe Factory.**—The Garretson Construction Co. is the name of the company lately mentioned as starting an iron safe factory. The capital stock is \$100,000.

**Denison—Boiler and Engine Works.**—A Corinth (Miss.) party will probably start boiler and engine works in Denison.

**Fort Worth—Machine Shops, &c.**—The Texas & Pacific Railway Co. (office, Dallas) has let contract for rebuilding repair shops and round-house, as stated in last issue.

**Fort Worth—Electric-light Plant.**—The Fort Worth Electric Light & Power Co. has let contract to the Westinghouse Electric Co., of Pittsburgh, Pa., for additional machinery.

**Fort Worth—Furniture Factory.**—It is stated that Lee Linn has completed arrangements for the erection of another furniture factory.

**Fort Worth—Power-house.**—The Fort Worth & Arlington Heights Street Railway Co. has, it is reported, commenced the erection of its electric power house.

**Gainesville—The Brady Mill & Elevator Co.** has been incorporated by R. S. Rollins, D. C. Brady, W. H. Brady and others with a capital of \$50,000.

**Galveston—Artesian Well.**—Mr. Byrnes has received contract from the Galveston Cotton & Woolen Mill to sink another artesian well.

**Galveston—Electric-light Plant.**—The Galveston Land & Improvement Co. will probably erect an electric-light plant.

**Honey Grove—Crematory.**—The city is investigating the cost of erecting a crematory. The mayor can give information.

**Laredo—Tannery.**—Allen McDonald is president; A. T. Atlee, vice-president, and W. M.

Sanford, secretary, of the Laredo Tannery & Leather Goods Co., reported last week as to establish a tannery. It will also erect a shoe factory 50 by 165 feet.

Laredo-Refrigerating Plant.—The Board of Trade is endeavoring to secure the location of a refrigerating plant.

Laredo-Coal Mines.—The Laredo Coal Co., mentioned in last issue will put in, in the course of six months, an electric mining plant, also haulage outfit.

Lewisville-Brick yard.—Waymire & Craft will operate the brick yard lately mentioned as to be started by J. Waymire.

Marble Falls-Brick and Tile Works.—Kley-meyer & Klute of Henderson, Ky., will, it is reported, establish brick and tile works in Marble Falls.

Marshall—Canning Factory.—The Marshall Canning & Evaporating Co. has been organized with W. P. Poland, president; J. R. Stinson, vice-president, and A. F. McAllister, secretary, to erect the canning factory lately mentioned. The capital stock is \$10,000.

New Birmingham—Chair Factory.—Nicholson & Son intend starting a chair factory after the ginning season is over.

New Birmingham—Ochre Mines.—L. T. Moore intends developing ochre mines as soon as he secures the necessary machinery.

Quanah—Bridge.—The construction of a bridge across the Red river is talked of.

Quanah—Water Works.—The building of water works is projected.

Rusk—Electric Lighting, &c.—The \$5,000 of bonds mentioned in last issue as issued by the city are for electric lighting and street improvements. J. A. Coupland, mayor, can give particulars.

San Antonio—Bridges.—Contract to erect the three bridges across the San Antonio river, lately mentioned, has been let to the Berlin Bridge Co.

San Antonio—Compress and Oil Mill.—W. C. Robards, J. L. Slayden, D. T. Iglehart, of Austin, and others have organized a \$100,000 stock company to erect a cotton compress and a cotton-seed oil mill.

San Antonio—Woolen Mills.—Efforts are being made to organize a company to erect a woolen mill.

Sherman—Rope and Twine Factory.—It is proposed to erect the rope and twine factory lately mentioned at a cost of \$100,000. J. C. Tashev is probably interested.

Taylor—Cotton Compress.—A company has been incorporated with J. R. Hoxie, president; B. Garry, manager, and F. L. Welsh, treasurer, to erect the cotton compress mentioned last week.

Taylor—Artesian Well.—The Taylor Water Co. has let contract for the sinking of an 8 inch artesian well.

Trier—Harness Factory.—Yoakum, Murchison & Williams will operate the harness factory and saddlery mentioned in last issue.

Vernon—Electric-light Plant and Water Works, &c.—A \$60,000 stock company has been organized to erect an electric-light plant, water works and an ice factory, and let contract to Thomas & Gorman, of Houston.

Waco—Grist Mill and Gin.—A Mr. Ferguson has, it is stated, purchased a site and will erect the grist mill and cotton gin at the new town of Lott, mentioned in last issue.

Waco—Water Works.—J. W. Mann, J. P. Nelson, I. I. Moore and others have incorporated the Lott Water Co. to construct water works at the new town of Lott. The capital stock is \$30,000.

Waco.—The Highview City Co. has been incorporated by R. Baxter, W. W. Woodward, P. A. Gorman and others with a capital stock of \$50,000.

#### VIRGINIA.

Abingdon—Bridges.—It is reported that bridges will be built across South Fork river and Beaver creek at Damascus.

Abingdon—Land.—The Abingdon Land & Improvement Co. has purchased, it is stated, 200 acres of the Hume property, adjoining Abingdon on the east.

Alexandria—Shoe Factory.—The \$25,000 stock company, recently mentioned as organized to establish a shoe factory, has been incorporated as the Potomac Shoe Manufacturing Co. with F. Paif, president, and G. P. Hill, secretary.

Appomattox C. H.—Land.—Hon. James E. Campbell, of Ohio; S. M. Bryan, of New York city, and others have, it is stated, purchased land around Appomattox Courthouse, and will lay off into parks and otherwise improve.

Basic City—Car Works.—A \$150,000 stock company is being organized to build car works—money nearly all raised. The Basic City Mining, Manufacturing & Land Co. can give particulars.

Basic City—Planing Mill.—Another planing mill will be erected. The Basic City Mining, Manufacturing & Land Co. can give information.

Basic City—Ice Factory.—R. M. Johnson, of Wheatland, will, it is reported, erect an ice factory.

Basic City—Brick Works.—Quarles & Dinkle contemplate establishing brick works.

Basic City—New Industries.—It is reported that an implement factory and a spoke and handle factory are to be established at Basic City. If true the Basic City Mining, Manufacturing & Land Co. can give particulars.

Basic City—Iron Furnace.—The Basic City Mining, Manufacturing & Land Co. has selected a site for its iron furnace, reported in last issue as probably to be built.

Berkley—Machine Shop.—It is reported that a company is being organized to build a machine shop.

Big Island.—The officers of the Big Island Land & Improvement Co., previously reported as incorporated, are E. J. Folkes, president; E. B. Thaw, vice-president; P. A. Krise, treasurer, and H. A. Jordan, secretary.

Big Spring Depot—Foundry and Machine Shops.—It is reported that foundry and machine shops will be located at Carnegie City. George B. McLane, of Roanoke, can give information.

Big Stone Gap—Water Works.—The Big Stone Gap Water Co. has been organized with William McGeorge, Jr., of Bullitt Building, Philadelphia, Pa., president, to supply the town with water. The capital stock is \$200,000.

Big Stone Gap—Furniture Factories.—Parties will build two furniture factories, paper mill and an acid factory. The Big Stone Gap Improvement Co. can give information.

Big Stone Gap—Electric-light Plant, Furnace, etc.—The Big Stone Gap Improvement Co., lately mentioned, will during the year erect an electric-light and power plant, construct water works and a sewerage system, build an iron furnace, wood-pulp mill, planing mill, brick works and an iron bridge. The Thomson-Houston Electric Co., of Boston, Mass., has contract for electric-light plant; none of the other contracts have been let.

Buchanan—Land.—Edward Dillon and others have organized a land company and purchased 3,000 acres of land near Buchanan.

Buena Vista—Car Works and Cotton Mill.—The erection of \$200,000 car works and a large cotton mill is projected. The Buena Vista Co. can give information.

Cedar Bluff—Coal Mines.—The coal lands of the Coal Mountain Mining Co., mentioned in last issue (under Leaksville, N. C.) include 16,700 acres located near Richlands. It will develop as stated.

Charlottesville—Land.—Payne & Massie have purchased the Preston farm and will lay it off in lots.

Charlottesville—Bottling Works.—F. J. Lilienfeld has started a bottling establishment.

Christianburg—Iron Furnace.—The Montgomery Land & Improvement Co., reported in last issue as to build a new town to be called Huger City, contemplates, it is stated, building an iron furnace.

Covington—Woodworking Factory.—The Covington Improvement Co. has purchased the Wyatt saw mill property, and will probably establish a woodworking factory.

Covington.—The capital stock of the Covington Improvement Co., mentioned in last issue, is \$100,000.

Covington—Iron Furnace.—It is stated that ground will be broken by April 15 for the building of an iron furnace. John S. Hain can give information.

Covington—Iron Mines.—The Potts Valley Mining & Manufacturing Co., previously reported, controls 60,000 acres of iron ore lands and will develop.

Danville—Canning Factory.—M. Moore and others are organizing a stock company to erect and operate a canning factory in connection with the Danville Nursery & Greenhouse, recently reported. The capital stock is \$20,000.

Danville—Tannery.—The establishment of a tannery is talked of.

Dinwiddie C. H.—Quarry.—The Petersburg Granite Quarrying Co. has purchased the Asylum quarry in Dinwiddie county, and will, it is stated, put in new machinery to develop.

Disputanta—Distillery.—A. R. Webb will rebuild his distillery mentioned in last issue as burned.

Fincastle—Land.—The Fincastle Land & Improvement Co. has been incorporated with James Godwin, president; C. H. Vines, vice-president, and C. N. Luusford, secretary. It has purchased about 500 acres of land from Thomas Miller, and will improve. The capital stock is \$150,000.

Fincastle—Bottling Works.—G. B. McLane will not start the bottling works mentioned in last issue.

Fredericksburg—Furniture Factory.—It is reported that T. F. Stonebraker will start a furniture factory.

Gordonsville—Land.—It is reported that a land and improvement company is being organized.

Halifax C. H.—Planing Mill.—The Halifax

Planing Mill Co. is the name of the company lately mentioned as erecting a planing mill.

Halifax C. H.—Broom Factory.—J. A. Yates contemplates starting a broom factory.

Harrisonburg—Machine Works.—Efforts are being made to secure the rebuilding in Harrisonburg of the Farmers' Alliance Agricultural & Machine Works, which were destroyed by fire at Edinburg.

Harrisonburg—Shoe Factory.—A Northern party is investigating, it is stated, with a view to moving his shoe factory to Harrisonburg.

Harrisonburg—Electric-light Plant.—It is reported that a company will be incorporated to erect a Thomson-Houston electric-light plant at the tannery of the J. P. Houck Tanning Co.

Lexington—Sash, Door and Blind Factory.—The Rockbridge Co., W. A. Chesterman and others, have organized the Glasgow Manufacturing Co. to operate a sash, door and blind factory. The capital stock is \$25,000.

Lexington—Bridges.—The board of supervisors of Rockbridge county will soon let contract for the construction of iron bridges at Goshen Bridge and Riverside.

Lexington—New Industries.—It is reported that arrangements are being made for the location at Glasgow of a wood-working factory, a cotton and woolen mill, a roller flour mill and a foundry and machine shops. The Rockbridge Co. can give particulars.

Lexington.—The Glasgow Manganese & Mineral Co., mentioned in last issue, has been organized with W. A. Anderson, president, and W. T. Shields, secretary.

Liberty—Reservoir.—The contract for the reservoir previously mentioned has been awarded to S. B. Mosby, of Richmond, at \$3,997.25. It will have a capacity of 1,000,000 gallons.

Louisa—Ice Factory.—The Louisa Ice Co. will erect a small ice factory.

Louisa—Oil Mill and Bark Mill.—A. D. Driscoll will establish a sassafras oil mill and a bark mill.

Lynchburg—Machine Works.—The Glamorgan Co., previously reported as considering the erection of an addition to its machine works, has let contract for same.

Lynchburg.—The West Lynchburg Land Co. has been reorganized with a capital stock of \$1,000,000 and purchased the property of the Lynchburg Land Co. W. W. Flannagan is president.

Malvern Hill—Phosphate Mines.—The Malvern Hill Marl & Phosphate Co. is the company mentioned in last issue (under Henrico county) as to develop phosphate mines.

Mount Meridian—Bridge.—C. Eakle, of New Hope, will shortly let contract for the construction of an iron bridge across Middle river.

Murat—Flour Mill.—A roller flour mill will probably be started at Zollman's Mill.

Norfolk—Barrel and Box Factory.—R. W. Stires will rebuild his barrel and box factory mentioned in last issue as burned.

North Danville—Ice Factory.—An ice factory, it is reported, will be established.

Petersburg—Ice Factory.—The Petersburg Crystal Ice Co. will increase daily capacity of its factory from 10 to 25 tons.

Port Republic—Iron Mines.—The Grottoes Co. has, it is stated, commenced developing the iron ore lands recently purchased from the Abbott Iron Co.

Pulaski City—Iron Furnace.—The Pulaski Iron Co. is reported as to build another coke iron furnace.

Pulaski City—Coal and Iron Mines.—The Peak Creek Coal & Iron Co., recently mentioned as to develop mineral land, has commenced opening coal and iron mines on its property.

Pulaski City—Rolling Mill.—The organization of the Pulaski Rolling Mill Co., lately mentioned, has not yet been completed.

Radford—Water Works.—The city will issue the \$25,000 of bonds lately mentioned for the construction of streets, water works, etc. The mayor can give particulars.

Roanoke—Factories, etc.—The Oak Ridge Land Co. has been incorporated with E. H. Stewart, president; T. L. Terry, vice-president, and S. W. Jamison, secretary and treasurer, to deal in real estate, erect and operate factories, etc. The capital stock is to be not less than \$25,000 nor more than \$50,000.

Roanoke—Brick Works.—Adams Bros. & Payne have put a new boiler in their brick works.

Roanoke—Iron Mines.—The Roanoke Variety & Mineral Springs Co., lately mentioned, will, it is stated, organize a \$50,000 stock company to develop iron ore lands.

Roanoke—Plaster Works.—M. T. Dill, of Portsmouth, is organizing a \$20,000 stock company for the manufacture of adamant plaster.

Roanoke—Coal Mines.—The Virginia Development Co. has organized the Consolidated Mining Co. to operate its coal mines.

Salem—Land.—A company has purchased 400 acres of land of B. S. Webb, east of Salem, at \$80,000.

Salem—Land.—New York city and Philadelphia (Pa.) parties have purchased property known as the "Jack" farm, south of Roanoke river, for \$100,000.

Scott County—Mineral Lands.—It is reported that a syndicate of Philadelphia (Pa.) and Abingdon capitalists have purchased mineral lands in Scott county.

Speedwell—Iron Furnaces, etc.—It is reported but not confirmed that the Virginia Development Co. has purchased the property of the Wythe & Speedwell Mining & Manufacturing Co., including 11,000 acres of farming and mineral land, several charcoal furnaces and a bloomery for \$350,000.

Spottsylvania County—Gold Mines.—It is reported that arrangements are being made to develop the gold mine of J. W. Colbert, of Fredericksburg; the Goodwin mine owned by a Baltimore (Md.) syndicate, and the Emily mines of Hon. J. L. Baker.

Taylorstown—Flour Mill.—J. S. House, mentioned in last issue, is remodeling his flour mill to the roller system. Contracts for machinery have been let.

Tolersville—New Town.—The purchasers of the 479 acres of land from J. J. Porter, of Louisa, mentioned in last issue, will lay off a new town.

Tolersville—Mine.—A London (Eng.) syndicate has purchased a mine for \$75,000 and intends developing. J. J. Porter, of Louisa, can give information.

Tolersville—Gold and Sulphur Mines.—It is reported that the Luce gold mine and the Smith Len sulphur mines will be developed.

Tolersville—Land.—A syndicate has purchased, it is reported, the Davis farm of 500 acres, and will lay off into town lots.

Vinton—Land.—It is reported that another land company is about to be organized.

Virginia—Land.—The Douglass Land Co. will be organized, it is stated, to develop 75,000 acres of land in Washington, Smyth and Grayson counties.

Winchester—Ice Factory.—Moore Bros. have let contract for machinery for their ice factory lately mentioned.

Wise County—Land, etc.—The Powells River Coal & Iron Co. has purchased of Patrick Hagan 14,000 acres of land and 8,347 acres of coal and mineral rights for \$113,460.

Wythe County—Land.—A number of Baltimore (Md.) capitalists are reported as purchasing a tract of mineral and timber land known as the "Stearn Survey," in Wythe, Bland and Giles counties, from Franklin Stearns, of Richmond.

Wytheville—Car Works.—The building of car works is contemplated. J. B. Barrett can give information.

Wytheville—Cotton Factory.—A company has been organized with T. S. Blair, president, to erect a cotton mill, and is now securing estimates on machinery.

#### WEST VIRGINIA.

Alderson—Flour Mill.—J. C. Bright, mentioned in last issue, will put roller machinery in his flour mill.

Buckhannon—Paving.—The city will hold an election to decide upon the issuance of \$20,000 of bonds to improve streets.

Clarksburg—Ice Factory.—J. H. Hurry and J. T. Johnson are organizing a company to erect a \$5,000 ice factory.

Clarksburg—Flour Mill.—J. F. Osborn's Sons have recently completed the erection of a 30-barrel flour mill.

Elkins—Tanning Factory.—J. E. McCarty is reported as forming a company to erect a \$25,000 factory for extracting the tanning properties from trees.

Grafton—Electric-light Plant.—The Grafton Electric Light, Heating & Power Co. has been incorporated with an authorized capital stock of \$100,000 to erect the electric light plant previously mentioned. It has franchise to light the town.

Logan C. H.—Land.—It is reported that Alexander McClintock has purchased 17,000 acres of land.

McDowell County—Coke Ovens and Saw Mill.—The Algoma Coal & Coke Co. is the name of the company lately mentioned as organized to develop coal lands. It will build 100 coke ovens and probably erect a saw mill. W. H. Thomas, of Coopers, is the general manager.

New Cumberland—Potteries.—It is rumored that an English syndicate will purchase the fire-clay industries of New Cumberland.

Parkersburg—Oil Lands.—Pittsburgh (Pa.) parties are reported as negotiating to lease large tracts of oil lands controlled by W. H. Maybury.

Parkersburg—Engine Works.—C. B. Smith &



Co. will add the manufacture of steam engines to the product of their foundry.

Shenandoah Junction—Machine Shops.—The Shenandoah Machine Co. will, it is stated, establish machine shops.

Simpson—Coke Ovens.—Eastern capitalists have closed negotiations for the coal lands of J. H. Kunst, A. Armstrong and others, previously mentioned, and will open mines and, it is stated, erect 200 coke ovens.

St. Albans—Machine Shops, etc.—The Chesapeake & Ohio Railroad Co. (office, Richmond, Va.) has, it is stated, commenced the erection of machine shops and roundhouse previously mentioned.

Sutton—Bridge.—The Elk River Bridge Co. has been incorporated to build a bridge across the Elk river.

Thomas—Coke Ovens.—The Davis Coal & Coke Co., mentioned in last issue, is building 78 coke ovens.

Tunnelton—Coke Ovens, etc.—The West End Coke Co. mentioned in last issue expects to build 200 additional coke ovens, and will probably put in mining machinery, including an electric motor.\*

Union—Oil Wells.—It is reported that a company has leased 35,000 acres of oil land from J. L. McLean and will develop.

Weston—Creamery. W. G. Bennett contemplates starting a creamery.

#### BURNED.

Arcadia, Fla.—Boyd's saw mill, between Arcadia and Nocatee.

Clareville, Va.—The planing mill of T. T. Gaskins, near Clareville; loss, \$1,800.

Charleston, S. C.—Factory of the Phoenix Furniture Co.

Durham, N. C.—The fertilizer factory of the Durham Bull Fertilizer Co.

Jefferson, Texas.—The dry-kiln of Clark, Boice & Collimer.

Little Rock, Ark.—The carriage factory of Roesch & Krodell.

New Orleans, La.—The works of the American Fatty Product Co.; loss reported to be \$50,000.

Pelzer, S. C.—The cotton warehouse of the Pelzer Manufacturing Co.; loss, including cotton, estimated at \$75,000.

Shelby, N. C.—The steam flour and grist mill of J. T. Bostic, of Asheville.

Yancey County, N. C.—The flour and grist mills of C. W. Curtis; loss \$12,000.

#### The New Tariff Bill.

The revised tariff bill, as formulated by the majority of the ways and means committee, is ready for presentation to the national House of Representatives. The bill is not complete in all its detail, but is sufficiently complete to report in regard to the various sections that will interest the South. Existing rates are to be maintained upon iron ore and pig iron. On certain kinds of manufactured iron the duty is reduced. The duty on steel rails is reduced \$4. In the lumber schedule the present duty on sawed boards, planks and unfinished lumber is reduced one-half. The duty on Sumatra tobacco is increased to \$2.75 per pound. Agricultural products generally have an increase of duty, though that on rice is reduced from 2½ to 2 cents a pound. In the wool schedule of the first-class the duty is increased 1½ cents a pound, and there is a change in the definitions and classifications. Sugar, under and including 16 Dutch standard, is made dutiable at 35 per cent., and above 16 standard 40 per cent. The standard is raised from 13 to 16. This is a cut in the duties of from 50 to 60 per cent. Molasses is made dutiable at 25 per cent. ad valorem, the present rate being specific. This is a considerable reduction.

The internal revenue features of the bill are the entire abolition of all special taxes upon dealers of all kinds, commonly known as licenses; the tax upon snuff repealed; farmers and planters growing tobacco will have the liberty to sell to whomsoever they please without restraint; the tax upon manufactured tobacco reduced from 8 cents to 4 cents a pound; cigars, cheroots and cigarettes will carry the same tax as is imposed under the present law; alcohol used in the arts is free under certain restrictions.

It is estimated that the bill will reduce the revenues about \$60,000,000. Of this reduction \$26,000,000 or \$27,000,000 will be secured by the cut on sugar and from \$1,000,000 to \$10,000,000 by the internal revenue features.

#### Building Notes.

Aberdeen, Miss.—The city contemplates issuing \$25,000 of bonds to provide for the erection of a school building.

Abilene, Texas.—Pruitt Bros. contemplate erecting a warehouse.

Abilene, Texas.—Hotel.—It is reported that a hotel to cost \$25,000 will be erected.

Abingdon, Va.—It is stated that a number of dwellings will shortly be erected by an improvement company to be organized. George W. Palmer, of Saltville, can give information.

Abingdon, Va.—Hotel.—It is reported that a \$35,000 hotel will be erected at Damascus.

Abingdon, Va.—Crook, Horner & Co., of Baltimore, Md., are the lowest bidders for furnishing the heating and ventilating apparatus for the U. S. public building lately mentioned, their bid being \$3,222.18.

Alexandria, Va.—The Mower Land & Improvement Co. has been chartered with a capital stock not to exceed \$50,000. Washington Danenhower is president, and S. H. Hunt, secretary.

Anniston, Ala.—G. S. Kennerly, architect, has plans for a parsonage to be erected by the Baptist congregation; cost \$15,000.

Asheville, N. C.—John E. Brown contemplates erecting several dwellings.

Athens, Ga.—Hotel.—It is said that J. G. Edwards will erect the new hotel previously rumored.

Athens, Ga.—J. H. Rucker contemplates enlarging his cotton warehouse.

Athens, Tenn.—A branch of the National Building & Loan Association of Atlanta, Ga., has been organized with E. Kramer, president, and R. S. Dobson, secretary and treasurer.

Atlanta, Ga.—Hotel.—Wm. W. Goodrich is preparing plans for the erection of a hotel.

Atlanta, Ga.—The Home Co. has been organized for the purpose of operating in real estate and sell homes for cash or on instalments. Wm. C. Hale is president, and Percy H. Adams, secretary and treasurer. Capital stock is minimum \$20,000, maximum \$60,000.

Atlanta, Ga.—The Richmond & West Point Terminal Railway & Warehouse Co., (office West Point, Va.) will, it is stated erect a depot. \$250,000 is said to have been appropriated to commence the work.

Atlanta, Ga.—Isaac Boyd contemplates erecting a residence to cost \$15,000.

Augusta, Ga.—Hotel.—The Hotel Bon Air Co., mentioned last week, intends issuing \$25,000 of bonds for the purpose of enlarging its hotel.

Baltimore, Md.—Hotel.—Jackson C. Gott has prepared plans for a three-story hotel, 100x100 feet, to have steam heat, electric bells, etc.; cost \$60,000.

Baltimore, Md.—Richard F. Foster has commenced the erection of 13 two-story brick dwellings to cost \$25,000.

Baltimore, Md.—The Immanuel Baptist congregation will erect a new church to cost about \$45,000. Rev. A. C. Dixon can give information.

Baltimore, Md.—A society has been organized to erect a women's home. Mrs. Franklin Dix can give information.

Bennings, Md.—Phillip Walsh & Sons, of Baltimore, have contract for erecting a cold-storage warehouse 123x198 feet in size, to cost \$25,000.

Berlin, Md.—Hotel.—The report of last week that a hotel would probably be erected is pronounced incorrect.

Big Stone Gap, Va.—Hotel.—The Big Stone Gap Improvement Co. will erect during the year a hotel, previously rumored, to cost \$100,000; contract not yet let.\*

Birmingham, Ala.—It is reported that a capitalist will erect a ten story fire-proof apartment house.

Birmingham, Ala.—R. J. Terry contemplates erecting a five-story office building.

Bluffton, Ala.—A stone building, to cost \$5,000, is to be erected for the bank mentioned elsewhere in this issue. The Bluffton Land, Ore & Furnace Co. can give information.

Braidentown, Fla.—The erection of a town hall is being talked of.

Brunswick, Ga.—A branch of the Atlanta National Building & Loan Association has been organized with F. A. Boyle president and Wm. Blitch secretary and treasurer.

Cameron, Texas.—Wm. Plummer, of Austin, has secured the contract for erecting the courthouse recently referred to, his bid being \$82,300.

Chattanooga, Tenn.—The New York Building Savings & Loan Association has been organized with a capital stock of \$30,000,000, with E. Watkins, president; F. C. Hoyt, secretary, and J. D. Lindsey, treasurer. The office is to be at Chattanooga. The Central Trust Co. of New York city is trustee of loan fund.

Chattanooga, Tenn.—James Timby has contract for the erection of the residence of J. H. Van Deman to cost \$7,000.

Chattanooga, Tenn.—A building and loan association has been organized with H. E. Case, president, and A. A. Strong, vice-president.

Chester, S. C.—A church will probably be erected. Rev. George Summers can give information.

Christiansburg, Va.—M. C. Pelton will, it is stated erect a residence.

Christiansburg, Va.—Hotel.—The erection of a hotel is being talked of at Huger City. H. D. Wade can give information.

Claude, Texas.—Contract will be let shortly for the erection of a courthouse for Armstrong county.

Coffeetown, Miss.—The board of county supervisors will receive proposals until April 7, for the erection of the courthouse previously mentioned.

Columbia, S. C.—Clark Waring has contract for erecting two additions to the State Insane Asylum.

Coopers, W. Va.—The Algoma Coal & Coke Co., mentioned elsewhere in this issue as to build coke ovens, etc., intends to erect houses also.

Dallas, Texas.—Hotel.—J. W. Morrison has contract for erecting the three-story hotel of Randall Bros. at a cost of \$10,000.

Dallas, Texas.—E. G. Bowen, county judge, will receive plans until May 1 for a courthouse, referred to last week, to cost not more than \$200,000. \$2,000 will be paid for the successful plan.

Dawson, Ga.—It is stated that the Columbus Southern Railroad Co. (office, Columbus) will erect a depot.

Denison, Texas.—The Security Building & Loan Association has been organized with a capital stock of \$40,000. S. A. Gilbert is president, and John Consalus, secretary.

Douglasville, Ga.—Work, it is reported, will soon commence on the addition to Douglasville College.

Florence, Ala.—The Home & Investment Co. has been organized with a capital stock of \$50,000, for the purpose of dealing in and improving real estate. E. B. Comly is president, and J. F. Robinson, secretary.

Frankfort, Ky.—A bill has been introduced into the legislature to incorporate the West End Mutual Investment Co. of Louisville, with F. C. Bickham, T. Lehane, Wm. Steele and others as incorporators.

Gainesville, Ga.—A branch of the Southern Building & Loan Association of Atlanta has been organized with A. W. Van Hoose, president, and W. E. McKinney, secretary and treasurer.

Galveston, Texas.—The Galveston Co-operative Savings & Loan Association is being organized by George M. Courts, S. S. Hanscom, E. H. Porter and others.

Galveston, Texas.—Mrs. L. C. Michael contemplates erecting a \$7,000 residence; W. A. McVittie, a two-story residence to cost \$9,000.

Galveston, Texas.—The following buildings are to be remodeled: The B'nai Israel Synagogue at a cost of \$10,000; St. Mary's Cathedral at a cost of \$15,000, and the Ball High School at a cost of \$30,000. N. J. Clayton & Co. are architects for all mentioned.

Greenville, Tenn.—The organization of a Methodist university and the erection of suitable buildings to cost about \$10,000 is being considered. Rev. J. C. Hartzell, secretary Southern Educational Society of the M. E. Church, Cincinnati, O., can give information.

Henrietta, Texas.—J. A. Frazier contemplates erecting a residence to cost \$5,000.

Henrietta, Texas.—Contract for erecting the jail lately mentioned has been awarded to the Pauly Jail Building & Manufacturing Co., of St. Louis, Mo., for \$28,000.

Johnson City, Tenn.—Hotel.—Plans are said to have been made for another hotel to be erected at a cost of \$100,000.

Knoxville, Tenn.—M. M. Harris and the Avenue Land & Improvement Co. will, it is reported, erect a four or five-story business block.

La Grange, Texas.—Fayette county contemplates erecting a courthouse to cost about \$90,000.

Laredo, Texas.—The erection of 3 schoolhouses to cost \$50,000 is talked of.

Laredo, Texas.—Eistetter & Johnson have contract for the erection of Caden & Murphy's warehouse.

Lancaster, S. C.—A branch of the Southern Building & Loan Association of New Orleans, La., has been organized with J. F. Mackey, president, and J. W. Hamel, secretary and treasurer.

Laredo, Texas.—Plans for the Boys' Industrial College to be erected by the Methodist Missionary Society of Nashville, Tenn., have been made by the Legg Architectural Co., of St. Louis, Mo. The cost of erection will be about \$250,000.

Lexington, Va.—The Glasgow Construction & Improvement Co., referred to last week, has been chartered with a capital of \$55,000, and proposes to erect stores, dwellings, etc., at Glasgow.

Lexington, Va.—Contract for the Methodist Episcopal Church South, previously reported, is said to have been let for \$12,000.

Little Rock, Ark.—It is said that O. M. Nilson, mentioned elsewhere in this issue as organizing a bank, will erect a bank building.

Little Rock, Ark.—A. Schader is having plans prepared for a residence to cost \$6,000.

Louisville, Ky.—Permits have been granted to Charles Ramser to erect a three-story brick store to cost \$10,000; to John D. White to erect 9 brick dwellings to cost \$28,500.

Louisville, Ky.—Levy Bros. contemplate erecting a business house.

Macon, Ga.—Hotel.—It is stated that Henry Horne will soon commence the erection of a hotel to cost \$100,000.

Macon, Ga.—M. Nusbaum will, it is stated, erect a four-story business building.

McKinney, Texas.—A building and loan association has been organized.

Meridian, Miss.—Hotel.—The Southern Hotel Co. has been organized by J. C. Lloyd, J. S. Solomon, C. W. Robinson, A. J. Weems and others for the purpose of erecting the hotel previously referred to. Bids are to be advertised for shortly.

Middlesborough, Ky.—The Middlesborough Town Co. has plans for three-story stone and wood office building to cost about \$15,000.

Middlesborough, Ky.—Hotel.—The Middlesborough Town Co. will, it is stated, erect an addition of 100 rooms to its hotel.

Murphy, N. C.—J. M. Richardson, chairman board of Cherokee county commissioners, will receive proposals until June 2 for the erection of the courthouse previously reported. Plans can be seen at the Superior Court clerk's office, or at office of Bruce & Morgan, architects, Atlanta.

Nashville, Tenn.—H. C. Thompson has prepared plans for a four-story restaurant building to be erected by I. Johnson.

New Castle, Va.—A branch of the Old Dominion Building & Loan Association of Richmond has been organized with P. W. Scott, president, and C. N. Hawkins, secretary and treasurer.

New Orleans, La.—A branch of the American Building, Loan & Tontine Savings Association has been organized with J. H. Seligman, president, and P. H. Lewis, secretary and treasurer.

New Orleans, La.—A branch of the Southern Home Building & Loan Association of Atlanta, Ga., has been organized with Henry Lochte, president, and L. F. Chalin, secretary and treasurer.

Newport, Ky.—H. Ellerman contemplates erecting store and dwelling to cost \$5,000.

Newport, Ky.—The First Baptist congregation intends erecting a new church.

New Orleans, La.—The Morris Building & Land Improvement Association, Limited, has been organized for the purpose of erecting buildings, improving and dealing in lands and operating plantations; capital stock \$1,000,000. John A. Morris, C. E. Rice, Thomas J. Semmes, Joseph P. Hornor, Thomas Sully and F. M. Rogers are the incorporators.

New Orleans, La.—H. Larroussini will erect a four-story business building; plans by Thomas Sully.

New Orleans, La.—H. & B. Beer confirm the report of two weeks ago that they will erect a large building.

Parkersburg, W. Va.—The city is considering the issuance of \$50,000 or \$60,000 of 5 per cent. bonds for the purpose, among others, of erecting a city hall.

Pendleton, S. C.—A branch of the Interstate Building & Loan Association of Columbus, Ga., has been organized with M. M. Hunter, president, and J. J. Sutton, secretary and treasurer.

Pineville, Ky.—Hotel.—A company is being organized for the purpose of erecting a five-story hotel to cost \$50,000.

Point Pleasant, W. Va.—Mason county is talking of erecting a new jail.

Quitman, Ga.—A. H. Johnson has prepared plans for remodeling a courthouse at a cost of \$10,000.

Radford, Va.—Plans have been prepared for the Christian church.

Radford, Va.—It is said that contract for the erection of 300 houses has been let. The Radford Land & Improvement Co. can give information.

Reidsville, N. C.—A building and loan association has been organized with A. E. Walters, president, and J. C. Womack, secretary and treasurer.

Richland, Ga.—Hotel, &c.—Work will soon be commenced on the hotel and bank building to be erected. Alexander Blair, of Macon, is the architect.

Rock Run, Ala.—It is reported that the Langdon Iron Co. has let contract for the erection of 40 houses at Langdon.

Rockville, Md.—F. E. Davis, of Baltimore, is the architect for the new courthouse to be erected at a cost of about \$50,000. Address C. J. Maddox, Rockville, for information.

Romney, W. Va.—The Hampshire Building & Loan Association has been chartered with a capital stock of \$150,000.

Savannah, Ga.—T. O. Brown, of Augusta, has contract for erecting 3 brick buildings, his bid being \$40,300.

Sheffield, Ala.—J. H. Chambers is interested in the company mentioned last week as purchasing \$50,000 of lots and to erect \$50,000 of houses.

Staunton, Va. J. Crawford Neilson, of Baltimore, Md., is preparing plans for the erection of two additional buildings for the Western Insane Asylum. The State has appropriated \$20,000 for the additions.

Temple, Texas.—N. J. Clayton & Co., architects, Galveston, have plans for the erection of a Roman Catholic church to cost \$10,000.

Texas, Md.—Thomas C. Kennedy, of Baltimore, has prepared plans for a parsonage to be erected by the Roman Catholic congregation; cost \$5,000.

Vinton, Va.—Hotel.—It is reported that parties contemplate erecting a hotel on the Dennis property.

Washington, D. C.—George A. Myers will erect a warehouse to cost \$6,000; J. C. Sprigg, a three-story brick dwelling to cost \$12,000; George S. Cooper, a brick dwelling to cost \$6,000; W. A. Kimmell, a brick dwelling to cost \$6,000; C. E. Blunt, a three-story brick dwelling to cost \$22,000; L. H. Emmert, a two-story limestone front dwelling to cost \$40,000, also 2 dwellings to cost \$35,000; Frederick Vogt, store and dwelling to cost \$8,000; Leroy Tuttle, a three-story stone front dwelling to cost \$23,000—W. C. Morrison has contract; St. Augustine's Roman Catholic congregation, a parsonage to cost \$9,000; Albert Curry, 4 dwellings to cost \$8,000; T. J. Mayer, 2 dwellings to cost \$10,500—C. C. Meads has contract; George W. Knox, a warehouse to cost \$15,000; Albert Curry, 6 dwellings to cost \$12,000; H. O. Wilbur, a dwelling to cost \$7,000; Wm. Bowersfield, a three-story store to cost \$10,000; Dr. J. E. Rankin, a cottage to cost \$20,000—R. I. Fleming has contract; John T. Lenman, an addition to a dwelling to cost \$12,000—steam heat will be used; plans have been prepared by T. F. Schneider for a dwelling to cost \$25,000; Samuel Norment, 4 dwellings to cost \$10,000.

Waycross, Ga.—Hotel.—It is reported that the Mitchell Hotel is to be enlarged.

Wheeling, W. Va.—Simon Baer's Sons state that as soon as they can get possession of the proposed site, which will be in about two years, they intend to erect the building reported last week.

Wheeling, W. Va.—It is said that the Wheeling Title & Trust Co., previously mentioned, will erect a building in the near future.

Wheeling, W. Va.—Plans are invited for the Ohio county jail; to cost \$60,000. Address county commissioners.

Winchester, Ky.—Work has been commenced on the \$50,000 building of the Kentucky Wesleyan College.

Winston, N. C.—H. E. McIver has contract for erecting the Roman Catholic church.

Wytheville, Va.—Hotel.—It is said that a company will erect a hotel.

Yazoo City, Miss.—The city will issue \$10,000 of 20 year bonds to provide for the erection of the school house lately mentioned.

Yazoo City, Miss.—A branch of the Atlanta Building & Loan Association has been organized with E. M. Haskell, president.

### Steel Plant for Salem, Va.

[Special dispatch to MANUFACTURERS' RECORD]  
LYNCHBURG, VA., March 20, 1890.  
Closed contract for steel plant at Salem; particulars by mail. W. F. M. McCARTY.

The above dispatch relates to a plant for making steel by the McCarty process. As it was only received while the last forms were on the press, no particulars can be given, but we believe that the enterprise is to be organized with a capital stock of \$1,000,000.

BUCKEYE PORTLAND CEMENT is the title of a neat pamphlet issued by the Buckeye Portland Cement Co., of Bellefontaine, Ohio. The pamphlet contains a great deal about cements in general, and this especial brand in particular. Among the different topics treated are hydraulic cement, natural cement, Portland cement, imported Portland cement, the making of concrete, to make cement walks, relative strength and cost of cement mortars and a large number of tests by experts. The many uses for cement are mentioned and described. Users of cement cannot but fail to benefit by reading this pamphlet, copies of which can be had upon application to the company.

### MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Apple Mill.—A. R. Webb, Disputants, Va., wants an improved apple mill for grinding and pressing.

Bake Ovens, etc.—J. E. Fray, New Market, Va., is in the market for patent bake ovens and bakery supplies.

Belt Railroad.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., will purchase material, equipment, etc., for a 6-mile belt railroad to be constructed.

Boiler, etc.—George H. Holgate, Atlanta, Ga., wants boiler and cast-iron drums for ice factory.

Boiler and Engine.—The Bon Air Coal & Coke Co., Bon Air, Tenn., will probably put in three 80 horse-power tubular boilers and a 150 horse-power engine.

Boiler and Engine.—The Johnson-Sharp Manufacturing Co., Fort Payne, Ala., wants a 30 horse-power tubular boiler and a 25 horse-power engine; second hand will do if in good order.

Boiler and Engine.—L. Hirsch, Newport, Ark., intends purchasing a 65 or 75 horse-power boiler and engine for electric-light plant.

Boiler and Engine.—The W. S. Bell Lumber & Investment Co., Atlanta, Ga., wants a 70 horse-power boiler and a 60 horse-power engine.

Bridge.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., will receive proposals for constructing an iron bridge.

Broom Factory.—J. A. Yates, Halifax C. H., Va., wants prices on machinery for a broom factory.

Canning Factory.—The Charleston Iron Works, Charleston, S. C., wants the address of manufacturers of canning machinery.

Canning Factory.—Prices are wanted on machinery for a canning factory. Address P. O. Box 18, Pittsboro, N. C.

Canning Factory.—The High Point Canning Co., High Point, N. C., wants some additional machinery; also cans and labels.

Cans.—The Davis Candy & Canning Co., Rock Hill, S. C., will want Nos. 2, 3 and 6 cans.

Carding Machine.—Frank McGinnis, Rome, Ga., will probably purchase a machine for carding woolen rags to be used in making mattresses.

Cigar Factory.—A. B. Exird, Leesburg, Fla., will want outfit for a cigar factory.

Cotton Factory.—The Waco Cotton Manufacturing Co., Waco, Texas, may want some machinery for its factory.

Cotton Factory.—The company which intends operating the Elm Grove cotton factory at Lincoln, N. C., will want some new machinery. George L. Phifer can give information.

Cotton Factory.—Machinery will be purchased for a cotton factory at Midway, Ala. Andy Smith can give particulars.

Cotton Mill.—J. B. Barrett & Co., Wytheville, Va., wants general machinery for cotton mill, including spindles, looms, belting, shafting, etc.

Dry-kiln.—Rankin & Bridges, Atkins, S. C., will probably purchase a dry-kiln.

Dummy Railroad.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., will purchase material, equipment, etc., for its dummy railroad to be constructed.

Electric-light Plant.—C. Bewick & Co., Hazlehurst, Ga., may want an electric-light plant in the fall.

Electric-light Plant.—Thomas & Gorman, Houston, Texas, want an electric-light plant.

Electric-light Plant.—L. Hirsch, Newport, Ark., intends purchasing a 650-light incandescent dynamo, with lamps from 16 to 32 candle-power, and probably also a 50 arc-light dynamo.

Electric-light Plant.—The Homesdale Lot Co., Covington, Ky., contemplates purchasing an electric light plant.

Electric Mining Plant, etc.—The Laredo Coal Co., Laredo, Texas, will want an electric mining plant; also haulage outfit.

Electric Motor.—The West End Coke Co., Tunnelton, W. Va., wants prices on an electric motor.

Engine.—R. N. Page, Aberdeen, N. C., wants prices on a 6 horse-power detached engine.

Excelsior Factory.—V. H. Parke & Son, Decatur, Ill., wants machinery for an excelsior factory.

Feed Mill.—W. M. Stringer, Stringer, Ala., wants a feed mill, to be operated by steam.

Feed Mill.—E. G. Brown, Lascassas, Tenn., expects to purchase a feed mill in the fall.

Fire Engine.—Radford, Va., will probably purchase a fire engine. Address the mayor.

Furniture Factory.—J. Cundell & Co., Rome, Ga., will probably purchase additional machinery for their furniture factory.

Grist Mills.—The Enterprise Manufacturing Co., Barnwell, S. C., wants 2 grain mills and bolting cloth to manufacture bolted and unbolted meal and pearl grits.

Horse Cars.—The Park City Street Railway Co., Parkersburg, W. Va., will probably purchase 4 light double platform cars; second-hand if in good order. Address, S. F. Shaw, superintendent.

Hotel.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., will purchase equipment for its hotel to be erected.

Ice Factory.—Thomas & Gorman, Houston, Texas, want material and machinery for an ice factory.

Ice Machine.—G. M. Bibb, Danville, Ky., wants a 5 to 10-ton ice machine.

Ice Machine.—W. R. Goodwin, Louisa, Va., wants an ice machine of about 1,000 pounds daily capacity.

Iron Castings, etc.—F. F. Cherry, Aurora, N. C., desires to contract with a foundry to furnish 2 to 3 tons of light, smooth grey iron castings; also wants supplies of machinery, steel, sheet-iron, brass wire and plow handles.

Knitting Factory.—J. A. Blalock, Barnesville, Ga., desire catalogues and prices on latest improved machinery for a knitting factory.

Machinery for Furnace, Water Works, Pulp Mill, etc.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., is in the market for machinery for an iron furnace with capacity of 1,000 tons per week, complete system of water works, wood-pulp mill, planing mill, two furniture factories, paper mill, acid factory and brick plant.

Machine Works.—The Clayton Sewing Machine Motor Co., Charles A. Loring, secretary, Atlanta, Ga., will want lathes, drill presses, spindle drills, etc.; also gear cutters that will work accurately and rapidly.

Milling and Mining Machinery.—The Cartersville Ochre Co., Cartersville, Ga., desires to communicate with manufacturers of ochre mining and milling machinery.

Mining Machinery.—The West End Coke Co., Tunnelton, W. Va., will probably want mining machinery.

Mining Machinery.—Wolff & Hall, Sylva, N. C., will probably purchase silver mining machinery.

Phosphate Mill.—J. B. Towns, Sumterville, Fla., wants a mill for grinding phosphate rock.

Perforated Metal.—The Peace River Phosphate Co., Arcadia, Fla., desires prices on perforated plates and steel bar screens.

Planing Mill.—C. Bewick & Co., Hazlehurst, Ga., have yet to award contract for machinery for their large planing mill.

Planing Mill.—The W. S. Bell Lumber & Investment Co., Atlanta, Ga., wants machinery for a planing mill.

Plaster Works.—B. Arentz & Co., Ocala, Fla., want a complete plant for calcining gypsum in such a manner that the sulphuric acid it contains may be collected and utilized.

Pump and Piping.—James Williamson, Hillsville, Va., wants a hydraulic pump that will force water to a height of 100 feet; also 300 yards of piping.

Railroad Equipment.—The Abbeville Investment & Construction Co., Abbeville, Ga., will purchase locomotives, cars, equipment, etc., for the Abbeville & Waycross Railroad.

Ranges, Heaters, etc.—S. K. Platshek, Savannah, Ga., wants the address of manufacturers of house ranges, heaters and slate mantels.

Sash, Door and Blind Factory.—The Enterprise Manufacturing Co., Barnwell, S. C., wants complete outfit for a sash, door and blind factory.

Saw Mill, etc.—John Chandler, of South Knoxville (P. O. Knoxville), Tenn., intends purchasing a double saw mill, gang edger and lath machine, also portable mounted engine.

Saw Mill.—W. H. Thomas, general manager of the Algoma Coal & Coke Co., Coopers, W. Va., will probably purchase a saw mill.

Saw and Planing Mill.—Rankin & Bridges, Atkins, S. C., will purchase machinery for planing mill, and probably also a saw mill of from 20 to 30 M feet daily capacity.

Sewerage System.—The Big Stone Gap Improvement Co., Big Stone Gap, Va., will receive proposals for building a complete sewerage system.

Shingle and Lath Machines.—J. T. Cain & Son, Bradford, Tenn., will put in shingle and lath machines.

Water Motor.—M. H. Clarke, Salem, Va., wants prices on a water motor.

Water Wheel.—D. D. Suttle, Shelby, N. C., will probably want a 12-inch turbine water wheel and fixtures.

Water Works.—F. P. Pendleton, mayor Winchester, Ky., will receive proposals until April 10 for constructing water works.

Water Works.—Thomas & Gorman, Houston, Texas, want material and machinery entering into the construction of a system of water works.

Water Works.—The Big Stone Gap Water Co., Big Stone Gap, Va., will want pipe and other materials for water works.

Wheat Thresher.—A. C. Wood & Bro., Lexington, N. C., will probably purchase a steam rig for threshing wheat.

Woodworking Machinery.—D. D. Suttle, Shelby, N. C., wants prices on machinery for the manufacture of furniture, spokes and hubs.

THE press dispatch sent out from Pittsburgh, and noticed elsewhere in this issue, about the poor quality of Southern iron (or, as most papers had it, Southern ore) shipped to Messrs. Carnegie, Phipps & Co., proves to be, as we supposed when writing the item printed in an earlier form, a very silly charge, without any substantial basis. An Alabama furnace, believing that its pig iron would class as Bessemer, sold an experimental lot of 2,000 tons to Messrs. Carnegie, Phipps & Co. to test. The iron proved not to be Bessemer, and on this the wild Pittsburgh dispatch was sent all over the country. In a reply to a letter of enquiry Messrs. Carnegie, Phipps & Co. wrote to the MANUFACTURERS' RECORD as follows:

We have your favor 17th inst., enclosing a newspaper clipping referring to a reported purchase by us of Southern ore. The clipping is in error in stating that we had purchased any ore. The transaction referred to was a purchase, which we made last fall, of 2,000 tons of Bessemer pig iron to be shipped from Alabama. None of the iron was received until last week. That which has reached us is found to be much higher in phosphorus and sulphur than was provided for in the contract.

### Foreign Exchange Quotations.

ALEXANDER BROWN & SONS. BALTIMORE, March 19, 1890.			
Sterling.	Selling.	Commercial.	
60 days.....	48 1/2	48 1/2 @ 48 1/2	
3 days.....	48 1/2		
Francs.—	Selling.	Commercial.	
60 days.....	520	524 1/2 @ 523 1/2	
3 days.....	518 1/2		
Reichmarks.—	Selling.	Commercial.	
60 days.....	94 1/2	93 1/2	
3 days.....	95 1/2	94 1/2	
Gulders.—	Selling.	Commercial.	
60 days.....	40 1/2	39 1/2	
3 days.....	40 1/2	39 1/2	

### Baltimore Stock Exchange Quotations.

Reported by ALEXANDER BROWN & SONS, Bankers, Baltimore.  
BALTIMORE, March 19, 1890.

BID. ASKED.	
Virginia 10-40 Coupons, N. F.....	30
N. Carolina 4's.....	96 1/2
Norfolk Water 5's, C.....	133 1/2
Atlanta & Charlotte.....	90
Ga. Car. & N. S.....	102 1/2
Wil. & Wel. 5's.....	112 1/2
Wil. Col. & Aug. 6's.....	118
Atlanta & Char. Income 6's.....	107
Col. & Green. 1st, 6's.....	100
Col. & Green. 2d, 6's.....	82
Va. Midland, 1st, 6's.....	118
Va. Midland, 2d, 6's.....	115
Va. Midland, 3d, 6's.....	106 1/2
Va. Midland, 5th, 5's.....	99 1/2
Char. & C. Aug. 1st, 7's.....	109 1/2
Char. & C. Aug. 2d, 7's.....	120 1/2
Ga. Pacific 2d.....	82 1/2
West. Nor. Car. Cons'd 6's.....	93
Cape Fear & Y. Valley 6's, A.....	104
Cape Fear & Y. Valley 6's, B.....	103 1/2

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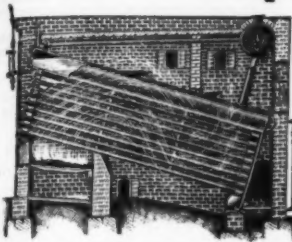
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BASIC STEEL.—A man of experience in the production of Basic Steel desires a position as Superintendent or Assistant to General Manager. Address "BASSCHE," care Manufacturers' Record, Baltimore, Md.

WANTED COTTON MILL HELP.—Experienced Weavers, Spinners and Cotton Mill Operatives in a new town in Arkansas. Splendid climate, modern mill; fair wages. Families especially desired. Write to R. GREER, V. F. Calumet Cotton Factory, Mammoth Spring, Ark. Will advance fares.

WANTED Two First Class Traveling Machinery Salesmen to sell Engines, Boilers, Saw and Grist Mills, Cotton Gins and Cotton Presses. None need apply without first-class recommendations and who understand the operating of above machinery. Must be under thirty-five years of age. Apply to MILBURN GIN &amp; MACHINE CO., Memphis, Tenn.

NOTICE TO COTTON MILL OVERSEERS.—SUPERINTENDENT WANTED.—Energetic young man thoroughly acquainted with manufacturing Brown Sheetings, Shirtings and Drilling. Must be sober, industrious and quick at figures. Young man, 28 to 35 years of age, desiring to be taken on trial in position where advancement will depend on his thrift and ability. Will correspond with EXPOSITION COTTON MILLS, Atlanta, Ga.

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Lakeside, Wis.  
Kilbourn City, Wis.  
(Dells of the Wisconsin.)  
Beaver Dam, Wis.  
Madison, Wis.  
Clear Lake, Iowa.  
Lakes Okoboji, Ia.  
Spirit Lake, Iowa.  
Frontenac, Minn.  
Lake Minnetonka, Minn.  
Ortonville, Minn.  
Prior Lake, Minn.  
White Bear Lake, Minn.  
Big Stone Lake, Dakota.  
For detailed information, apply to any coupon ticket agent, or send stamp for a free illustrated guide book, entitled "Cool Retreats." Address A. V. H. Carpenter, General Passenger Agent, Milwaukee, Wis.

## PROPOSALS.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 8th day of April, 1890, for all the labor and materials required to complete the approaches to the U. S. Postoffice, &amp;c., building at St. Joseph, Mo., in accordance with specification and drawing, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same, also bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. March 12th, 1890.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 4th day of April, 1890, for a clock in the tower of the United States Courthouse, Postoffice, &amp;c., at Carson City, Nevada, in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same, also bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. March 8th, 1890.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 26th day of March, 1890, for all the labor and materials required to build complete the Stone Porch at Church Street Entrance to the United States Courthouse, Postoffice, &amp;c., building at Rochester, N. Y., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. March 7th, 1890.

PROPOSALS FOR SUPPLIES FOR THE POSTOFFICE DEPARTMENT AND POSTAL SERVICE.

POSTOFFICE DEPARTMENT,  
WASHINGTON, D. C., March 12, 1890.  
SEALED PROPOSALS will be received at this Department until Saturday, the 19th of April, 1890, at 12 o'clock noon, for furnishing wrapping paper, wrapping paper for facing slips, twine, letter scales, postmarking and rating stamps, rubber stamps, canceling ink, rads, paper, envelopes, rubber goods, p. ns, pen-holders, pencils, inks, mullage, glass goods, rulers, folders, articles of steel, rubber erasers, books, typewriter supplies, and miscellaneous stationery in such quantities of the different articles, respectively, and at such times and from time to time, as they may be ordered, during the fiscal year beginning July 1, 1890, and ending June 30, 1891, for the use of any branch of the department or postal service.

Bids for proposals, with specifications giving detailed statement of the requirements, to be met in respect to each article, and also the estimated quantities probably to be required of each, and giving full instructions as to the manner of bidding and conditions to be observed by bidders, will be furnished on application to the Superintendent of the Division of Postoffice Supplies, Postoffice Department, Washington, D. C.

The Postmaster General reserves the right to reject any or all bids, to waive technical defects, and to accept any part of any bid and reject the other part. JOHN WANAMAKER,  
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41 E. BROADWAY, BUTTE, MONTANA.

## WHICH? BUTTER OR CHEESE.

If either, or both, send for J. S. CARTER'S Illustrated Catalogue, which gives full information of latest and best method and appliances for making Cheese or Butter, from the largest factory to the smallest dairy. Carter's Cream &amp; Churning System of Butter Making is a success. JOHN S. CARTER. Syracuse, N. Y.

## R. M. JOHNSON,

Manufacturers' Agent and Dealer in Corlies, Automatic Cut-Off and Plain Slide Valve

## Steam Engines and Boilers,

Saw Mills, Machinists' Tools, Wood-Working Machines, Mining, Brick, Ice, Grist Mill, Dairy, Canning and Electric-Lighting Machinery, a Specialty; also Double Cylinder Traction Engines. Complete outfits supplied at lowest prices. Correspondence is solicited.

R. M. JOHNSON, Wheatland, Va.



**.. Godfrey & Co., 147 Gaspee Street, Providence, R. I.**



## TRADE NOTES.

THE Southern District Telegraph & Electric Co., of Birmingham, Ala., have received contract for an electric-light plant for Opelika, Ala. The contract includes engine, boiler, three arc-light dynamos and everything in running order. This company are contractors in all kinds of electric matters, and represent all the leading systems of electric lighting and power. They are practical electricians, and undertake to furnish plants in whole or in part, or to increase the capacity or improve the efficiency of established plants. A full line of supplies are always carried in stock.

THE Graham Vise Wrench Co. has been started in Buffalo, N. Y., for the purpose of manufacturing a new pipe wrench, which, they claim, is the best thing of its kind ever devised. It grips a pipe the same as a vise does, and in consequence, it will not do it any injury. Another feature is that the grip being one of great strength, the teeth do not cut the figure. All the parts being interchangeable, the tool, when broken, is not of necessity useless. This wrench enables a person to take the shortest nipple out of a boiler without injury. It recommends itself especially to those who have to work in close quarters, as it will grip to the 32d of an inch.

AS THE announcement that the Aerated Fuel Co. have made the Gilbert & Barker Manufacturing Co., of Springfield, Mass., their general agents for the United States had led many persons to think that the other representatives of the former company had given up their connection with it, these representatives wish it understood that they are still the sole licensees for the Aerated Fuel Co.'s system for the territory assigned to them. All persons interested, therefore, in this system in Southern New York State, Eastern Pennsylvania, New Jersey, Delaware, Maryland and the District of Columbia are requested to apply to W. S. Collins, 171 Broadway, New York, who is prepared to put in the system complete, with a guarantee of its success.

A CATALOGUE descriptive and illustrative of complete brick-making outfits and accessories is sent out by J. W. Penfield & Son, manufacturers of clay-working machinery at Willoughby, Lake county, Ohio. The catalogue does not discuss the relative merits of stiff clay or soft mud processes of making brick, but discusses brick-making machinery as invented and made by this firm for the most economical and satisfactory manufacture of bricks. The models for 1890 are now complete and the machines for sale. This firm also makes a specialty of furnishing complete outfits, including machines, pug-mill, crusher and elevator, mould sander, re-press, line shafting, pulleys, hangers, engines, boilers, transfer cars, tile machinery, kiln castings and supplies of all kinds for completely furnishing brick-yards with the most approved appliances.

THE Bradstreet Co., of New York, sends out a little eight-page pamphlet entitled "1889: A Record, Not a Prospectus." The record as herein presented is certainly a remarkable one, in that it shows how comprehensive the work of this company is. That any company should be able to follow so accurately the business of a country as extensive and ever-changing as the United States is one of the wonders of modern business life. The pamphlet is a concise review of the business failures of 1889, with an analysis of their causes and a comparison with the records of 1887 and 1888. The reports made by the company show a minimum number of errors. In practically all the failures the financial condition of the concerns was understood by Bradstreet's. As a record the showing in this pamphlet is an interesting study for business men.

DRY-KILNS are a necessity in these days of hurry. One of the most practical, economic and efficient kilns is said to be that manufactured by the Akron Heating & Ventilating Co., Akron, Ohio, which is advertised in another column. This company employ special engineers in heating and ventilating, and have every facility at hand for constructing the most complete and satisfactory model kiln. Lumber that is well kiln-dried much more than pays the expense of drying when sold, and saw mill men and lumber dealers in the South should bear this in mind and send for a description of the Akron kiln, which will be sold on very easy terms.

IN sending out the 1890 catalogue of their valves and standard packing, Jenkins Bros., of 71 John street, New York, also of Chicago, Boston and Holyoke, announce a radical change in their price-list. Heretofore large discounts have been offered in this trade, but this firm have chosen to make the prices of their goods considerably less, and have materially reduced the discount. The advantage is still with the buyer, as will be readily seen by an examination of the catalogue. Improvements have been made in the specialties of this firm, especially in their discs. In regard to both their valves and packing, the firm offer to place them in the worst and most disadvantageous places, and if they do not prove what is claimed for them the money will be refunded. The catalogue is completely illustrated with goods of different sizes, shapes and styles.

SCHAUM & UHLINGER, successors to W. P. Uhlinger, manufacturers of textile machinery, Glenwood avenue and Second street, Philadelphia, announce that since removing to their new factory they have continued the improvement in their output. The rapid increase in their business and the broadening territory which their trade covers is attributed to their efforts to produce the best looms and kindred machinery. The hearty reception with which their products have met is especially noticeable in their ribbon looms and circular battons. During the past month they have added several new and valuable improvements to their machines, among which is the patent glass and breast beam brackets, patent iron warp racks and an improvement in side Jacquards. They have recently added improved special machinery in the batton department, which enables them to produce a better and more satisfactory batton than heretofore. A valuable feature in this batton is that they are built now in such a manner that they are guaranteed not to be affected by the changes of atmosphere.

WM. SIMPKIN A. S. M. E.

## SIMPKIN & HILLYER, ENGINEERS and CONTRACTORS RICHMOND, VA.

Manufacturers of and Agents for Steam Engines, Boilers, Pumps and Heavy Machinery. Economical Steam Plants, Rope and Belt Driving. Special Machinery for Chemical and Fertilizing Works, Gas, Water and Creosote Works. A specialty of the "Warwick" Pole Road Locomotive, "Warwick" Tram Road Locomotive, and the "Warwick" Silent Steam Street Motor. Castings furnished. Repair work solicited. Consultations, Arbitrations and Valuations. Engines indicated. Plans, Specifications and Estimates prepared. Correspondence invited.

WORKS—Newport News, Va.

GENERAL OFFICE—1105 Main St., Richmond, Va.

SEND ALL REPAIRS TO OUR WORKS.

HERMANN SCHMIDT, President.

E. A. CATLIN, Secretary and Treasurer.

W. SIMPKIN, Vice-President and Gen. Agent.

## THE RICHMOND ICE-MACHINE CO.

Manufacturers of the Most Improved

RICHMOND, VA.

## Ice-Making and Refrigerating Machinery

ON THE COMPRESSION PLAN.

We guarantee the proper working of our machinery. All working parts built to gauge, so they can be readily duplicated, and nothing but the very best material used. Specifications and estimates furnished. Correspondence solicited.

P. O. Box 315.

GENERAL OFFICE 1105 MAIN STREET, RICHMOND, VA.

Send for our Pamphlet "How to Make an Ice Factory Pay."

## HARRISON SAFETY BOILERS.

Combine Maximum Safety,  
Economy of Fuel, Durability.Merits Proven by Over  
Twenty Years' Practical Work.All sizes from 4  
H. P. to 340 H. P.Ease of Transportation, Erection and Repair.  
Full Particulars, Drawings and Estimates mailed upon application.

HARRISON SAFETY BOILER WORKS, Germantown Junction, Philadelphia, Pa.

Southern Office, 9 to 13 N. Pryor street, Atlanta, Ga.



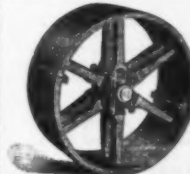
Improved Screw Cutting  
FOOT AND POWER LATHES  
Drill Presses, Shapers, Band, Circular and Scroll  
Saws, Machinists' Tools and Supplies. Lathes  
on trial. Catalogue mailed on application.



THE SEBASTIAN-MAY CO.

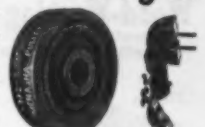
182 West Second St., CINCINNATI, O.

## Menasha Hard Wood Pulleys.



We are sole makers of hardwood bent rim,  
oak spoke arm Pulleys: gripped to shaft with  
bolts, and using patent paper bushings. They  
can be put onto shaft without taking it down  
or cutting keyseats. No glue or nails used in  
their construction. Hub with bushing fits  
any size of shaft.

Also sole makers of only small Split Pulley  
1 inch to 8 inches in diameter, in the market.  
See above cuts of them. No glue or nails in  
them. No Keyseats to cut. Also sole makers of only Split Loose Pulley  
in the market, with gun metal metaline bushing. Send for circulars and  
discounts of Menasha Pulleys.



MENASHA WOOD SPLIT PULLEY CO., Menasha, Wis.

Branch Houses: Hoen & Von Kapff, Baltimore, Md.; Lodge & Davis Mach. Tool Co., New York City;  
H. N. Bates & Co., Boston; Chas. A. Turner, Pittsburg, Pa.; Greene & Wood Mfg. Co., Philadelphia;  
W. D. Allen & Co., Chicago and Minneapolis; E. L. Cole, New Orleans, La.; Thos. J. Bell & Co.,  
Cincinnati; L. M. Rumsey Mfg. Co., St. Louis.

## The Acme Dry-Steam Blower

FOR ROLLING MILLS.

## THE GREATEST INVENTION OF THE AGE.

McCoy Patent, January 14, 1890.

## IRON MANUFACTURERS MAY WELL REJOICE OVER THIS GREAT DISCOVERY.

Twenty-five per cent. of coal actually saved, quality of the iron greatly improved, grate bars  
preserved for years, reduces clinkers and prevents them from adhering to brickwork, thereby making  
an enormous saving in firebricks and labor. Ten heats can be turned out in 24 hours, owing to the  
great condensed heat diffused throughout the entire furnace. It can be used whenever a forced blast  
is required and is especially applicable to

## HORIZONTAL TUBULAR BOILERS.

FOR FURTHER PARTICULARS ADDRESS

THOS. FAHY, 248 BROAD STREET, ROME, GA.

## JESSE W. STARR,

Contractor &amp; Builder Water and Gas Works,

CAPITAL OBTAINED FOR RAILROAD and OTHER ENTERPRISES.

418 Walnut St., Rooms 67 and 68,

PHILADELPHIA, PA.

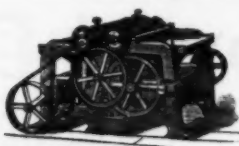
Specifications and Estimates furnished.







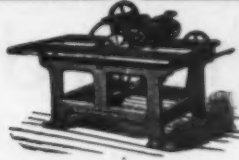
No. 2 1/2—Pacific Planer and Matcher.



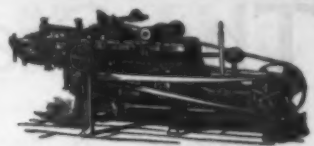
No. 4—Smoothing Planer.



Horizontal Borer.



No. 2—Self-Feed Rip Saw.



No. 3—Molding Machine.

No. 2  
Foot Scroll Saw.

W. H. DOANE, Pres't.

**J. A. FAY & CO.**

D. L. LYON, Sec'y.

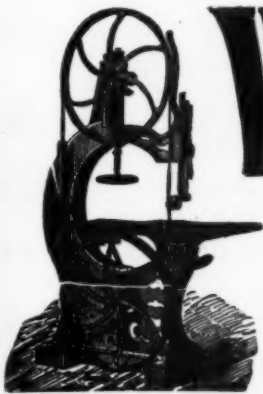
CINCINNATI, OHIO.

Manufacturers of  
—PATENT—**Improved Wood-Working Machinery**

OF EVERY DESCRIPTION,

For Planing Mills, Sash, Door and Blind Shops, Furniture, Carriage and Wagon Factories,  
Spoke, Wheel and Agricultural Works, Car Shops, etc.No. 2  
Band Saw.

Awarded "GRAND PRIX" at the Great PARIS EXPOSITION of 1889.

Every Machine Tested and Warranted.  
Send for Circulars and Estimates.

# Wood Working Machinery



COMPLETE OUTFITS FOR PLANING MILLS

**H. B. SMITH MACHINE CO.**Send for catalogue and visit our extensive  
warerooms if possible.**925 MARKET STREET.****PHILADA, PA., U. S. A.**

Established 1840.

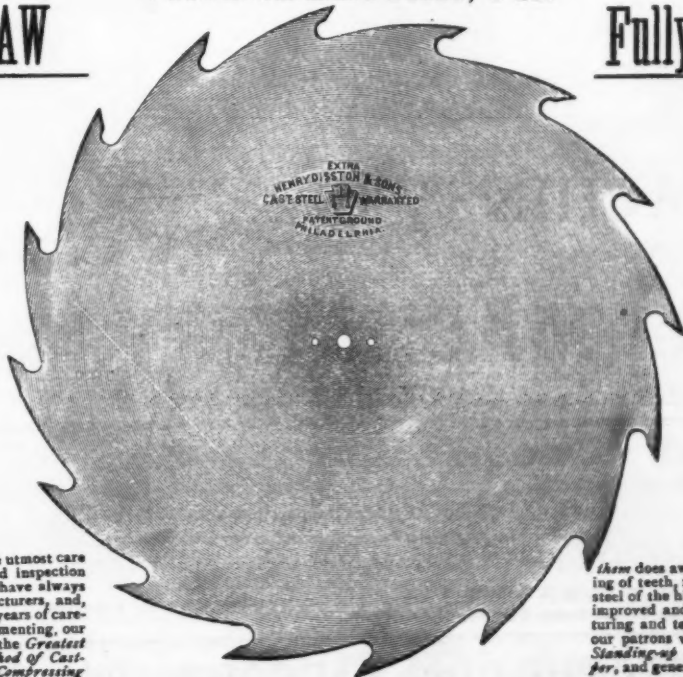
**HENRY DISSTON & SONS,**

Established 1840.

Incorporated,

**Keystone Saw, Tool, Steel and File Works,**

PHILADELPHIA, PA.

**Every SAW****Fully Warranted.**BRANCH HOUSE:  
Cor. Randolph and Market Streets,  
**CHICAGO, ILL.**Send for Price List and Discount Sheet and  
New Illustrated Edition of Files.BRANCH HOUSE:  
923 West Main Street,  
**LOUISVILLE, KY.**  
Send for New edition of Lumberman's Hand  
Book and Sawyer's Pocket Edition.WE have always taken the utmost care  
in the manufacture and inspection  
of our steel and saws, have always  
headed the list of saw manufacturers, and,  
we are happy to say, that after years of care-  
ful study and expensive experimenting, our  
efforts have been crowned with the Greatest  
Success of the Age, as our Method of Cast-  
ing Steel Ingots and Process of Compressingthem does away with the splitting and splin-  
ing of teeth, makes a hard, tough and elastic  
steel of the highest quality, which, with our  
improved and patented process of manufac-  
turing and tempering enables us to furnish  
our patrons with saws that for Toughness,  
Standing-up Quality, Uniformity of Tem-  
per, and general superiority,**HAVE NEVER BEEN EQUALLED.**FOR THE BEST  
**MACHINERY**

For Shingles, Heading and Staves,

VENEER CUTTERS

AND

IMPROVED

Gauge Lathes

FOR

TURNING

HANDLES, ETC.

Address

**TREVOR MFG. CO., Lockport, N. Y.**

Established 1867.

**E HARRINGTON, SON & CO.**

Works and Office,

N. 15th St. &amp; Penna. Ave., Phila., Pa., U.S.A.

Manufacturers of a full line of

**Iron Working Machinery,**

INCLUDING

Extension and Gap  
Lathes, Planers with  
Quick Return, Drills, &c.  
Hand Power Elevators  
with Patent Brake, Dou-  
ble Chain Screw Hoist,  
OVERHEAD TRAMWAY,  
with Switch, Turntable  
and Geared Truck.

Gear Cutting a Specialty. Send for estimates.

Represented by J. O. MAYNARD, 25 Cortland  
St., N. Y.; C. E. KIMBALL, 93 Oliver St., Boston;  
W. BUCHNER, 122 Main St., Cincinnati.**BERNHARD DIETZ,** Manu-  
facturer of **Printers' Rollers**  
and Roller Composition. Factory, N. E. Cor. Grand  
and Mercer Sts., Baltimore. Prices: Composition (bulk)  
50 cents per pound; for casting, also 50 cents per pound.  
Orders by mail promptly attended to.

# The Standard Improved Dry Kiln.



RADICAL IMPROVEMENT IN APPARATUS.

Ample Provision for Expansion of Pipes.

NO LEAKS. NO STRAIN.

The most PRACTICAL and EFFICIENT "BLOWER KILN" that is made. Send for NEW CATALOGUE and Testimonial Letters, which substantiate the above statement. Satisfaction guaranteed. Payment contingent on fulfillment of guarantee.

PRICES LOW.

TERMS EASY.

**The Standard Dry Kiln Co.**

PATENTERS AND SOLE MANUFACTURERS,

1224 to 1230 West Main Street,

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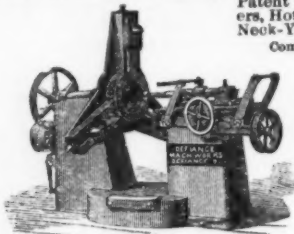
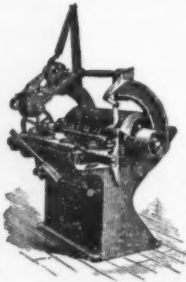
## DEFIANCE MACHINE WORKS, Defiance, Ohio.

ESTABLISHED 1850.

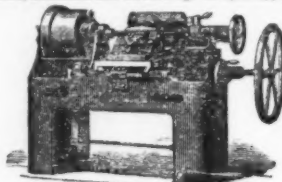
Manufacturers of HUB, SPOKE, WHEEL, BENDING, WAGON AND CARRIAGE MACHINERY,

Patent Plow-Handle Benders, Shapers, Cut-Off Saw and Revolving Rollers, Hot-Form, Double and Single Bent Pole and Express Shaft Benders, Neck-Yoke, Singletree, Brush Handle Lathes and Finishing Machines. Complete Outfits Furnished, Estimates and Circulars given upon application.

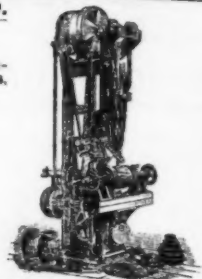
Patent Automatic Combined Spoke Turning and Squaring Machine for common, sarven patent, or sharp-edged spoke turning. Capacity 2,500 per day.



Wheel Boxing Machine.



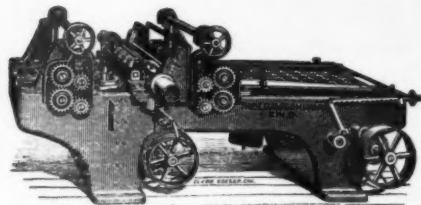
Patent Hub Turning Machine.



Patent Automatic Double-Chisel Hub Mortising Machine. Built in three sizes.

# WOOD-WORKING MACHINERY.

SEND FOR A CATALOGUE AND SPECIAL LOW PRICES.

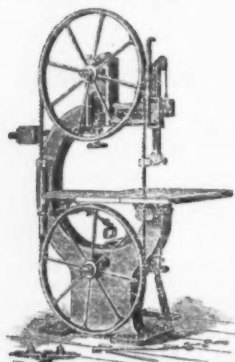


## COMPLETE OUTFITS

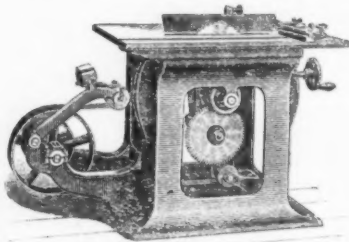
For Planing Mills, Sash, Door and Blind Factories, Carriage, Wagon and Carpenter Shops, &c.

## THE EGAN COMPANY

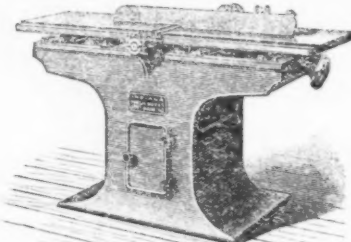
228 to 248 W. Front St., Cincinnati, O., U.S.A.



36-in. Band Saw.



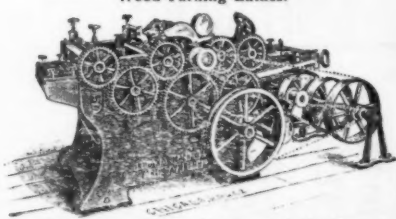
Combination Saw.



Improved Hand Planer.



Wood-Turning Lathes.



No. 1 Clipper Planer, Matcher and Moulder.

## INDIANA MACHINE WORKS

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BUILDERS OF

# WOOD-WORKING MACHINERY. Modern, Convenient, Durable and Efficient.

—Descriptive Circulars and Estimates Cheerfully Furnished.—

Established 1874.

MANUFACTURERS OF

Taper Shank Drills,  
Straight Shank Drills,  
Blacksmith Drills,  
Bitstock Drills,  
Straight Fluted Drills,  
Machine Bit Drills

## Cleveland Twist Drill Co.



Send for Catalogue.

OFFICES—

Cor. of Lake & Kirtland Sts., Cleveland, O.  
101 Chambers Street, New York.

Write for Discounts.

MANUFACTURERS OF

Self-feeding Reamers,  
Expanding Reamers,  
Shell Reamers,  
Stay-bolt Taps,  
Taper Reamers

Subscribe to the **MANUFACTURERS' RECORD.** Price \$4.00 a Year, Or Six Months for \$2.00.



# Improved Eureka Dry Press Brick Machine.

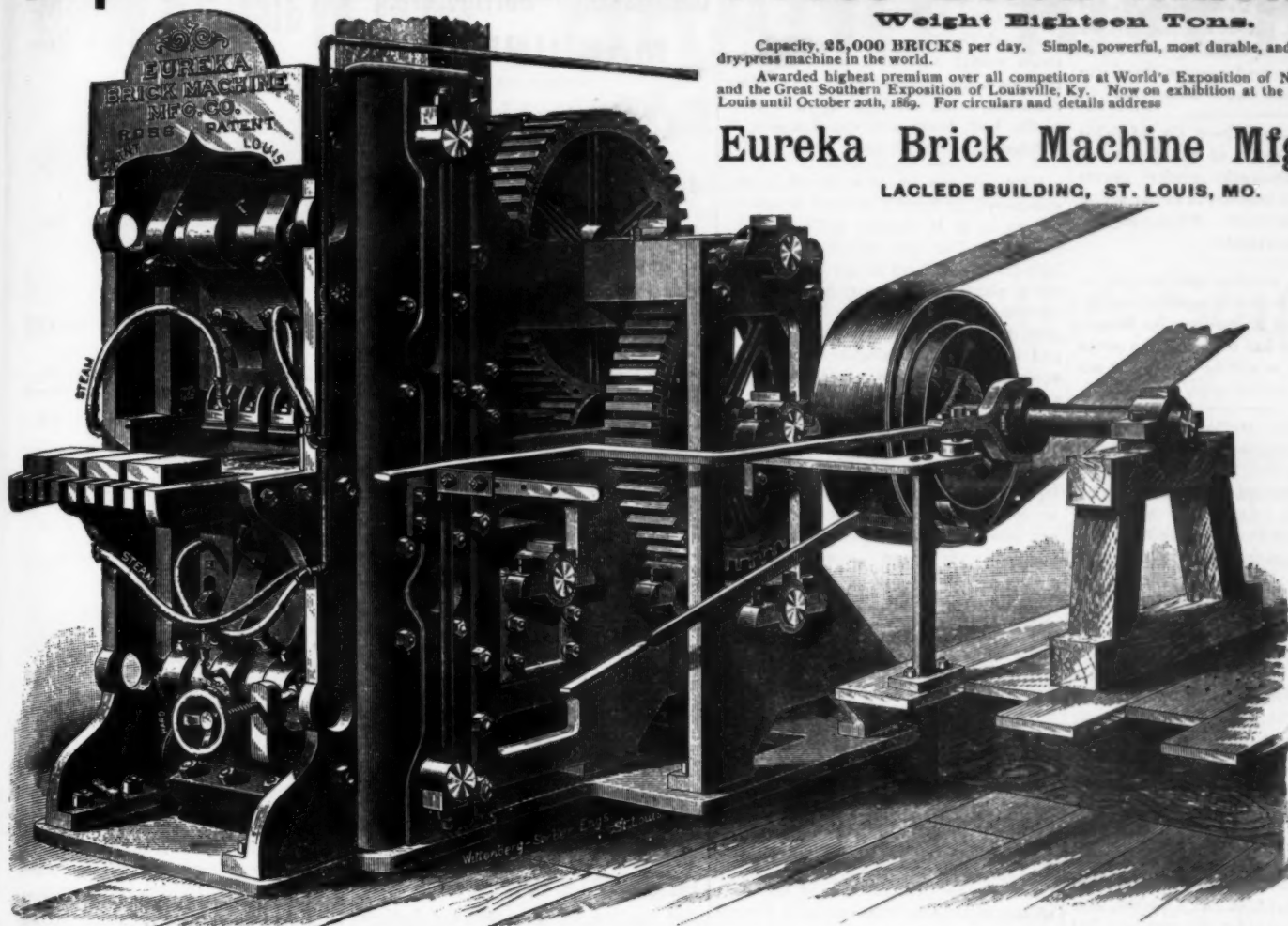
Weight Eighteen Tons.

Capacity, 25,000 BRICKS per day. Simple, powerful, most durable, and superior to any dry-press machine in the world.

Awarded highest premium over all competitors at World's Exposition of New Orleans, La., and the Great Southern Exposition of Louisville, Ky. Now on exhibition at the Exposition in St. Louis until October 20th, 1889. For circulars and details address

**Eureka Brick Machine Mfg. Co.**

LACLEDE BUILDING, ST. LOUIS, MO.



## BRICK • MACHINERY.

THE NEW

### QUAKER

is the best and most reasonable in price of any first-class Brick Machine made. Send for illustrated catalogue, giving full particulars and prices before purchasing.

Both Horse and Steam Machines

PUG MILLS, MOLD SANDING MACHINES, MOLDS, BARROWS, AND ALL BRICKMAKERS' SUPPLIES.



**Fletcher & Thomas, Indianapolis, Ind**

## BRICK MACHINERY • TILE MACHINERY Full FACTORY

CAPACITY 10 to 100,000 PER DAY.

8 Different KINDS OF BRICK MACHINES

THE LATEST and BEST.

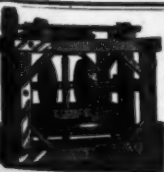
SEND FOR CATALOGUE.

**THE FREY, SHECKLER COMPANY, BUCYRUS, O., U.S.A.**



Send for Illustrated Catalogue.

Mention Manufacturers' Record.



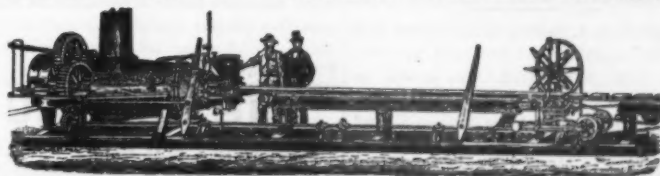
### Brick and Terra Cotta Machinery

Steam Sewer Pipe Presses, Dry Pans for Grinding Clay, Wet Pans for Tempering Clay, Pug Mills and Engines. Complete Outfits.

**STEVENSON & CO., Wellsville, O.**



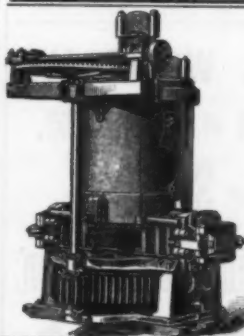
## Chambers' Brick Machinery



15,000, 25,000, 50,000 per day Capacity.

GUARANTEED AND FURNISHED ON THIRTY DAYS' TRIAL.

**CHAMBERS BROS. CO., Philadelphia, Pa.**



## Brick Machinery

Capacity 15,000 to 100,000.

Pug Mills, Crushers, Elevators, Etc.

Full Outfits a Specialty. Satisfaction Guaranteed.

**J. W. PENFIELD & SON**

WILLOUGHBY, OHIO, U.S.A.



### BRICK-MAKER'S SUPPLIES

TRUCKS, MOLDS, BARROWS, MACHINES, FOUNDRY WORK, ETC.

**G. W. RAYMOND & CO.**

DAYTON, O.



## New Haven Horizontal STEAM POWER Brick Machine

**The McLAGON FOUNDRY CO.**

Send for Catalogue.

NEW HAVEN, CONN.

## TRADE NOTES.

THE Wainwright Manufacturing Co., of 34 Oliver street, Boston, has just shipped 7 of their 200 horse-power improved corrugated copper tube condensers to the Carolina Oil & Creosote Co., Wilmington, N. C.

THE Chesapeake Belting Co., of Baltimore, have in process of manufacture an 86-inch 6-ply Chesapeake stitched canvas belt. This belt is believed to be the widest that is run in the world. When complete it is to be photographed.

J. A. HOOVER, who has been carrying on the real estate business at Chattanooga, Tenn., has moved his business to Morristown, Tenn., and has increased the scope of his business, as will be seen by his advertisement on another page.

MESSRS. RYAN & McDONALD, of Waterloo, N. Y., manufacturers of steam-shovel cars, derrick fixtures, hoisting engines, engines of all kinds, boilers and other similar appliances, have incorporated their company, and are now known as the Ryan-McDonald Manufacturing Co., as will be seen by the change in their advertisement in another column.

RIEHL BROS., of the Philadelphia Scale & Testing Machine Works, Philadelphia, recently sold a 60-ton railroad-track scale to Henry Disston & Sons, and have received a letter from that firm which says: "The railroad-track scale of 60 tons capacity furnished us by you is giving the best of satisfaction. We recently had it tested and found it correct."

E. S. HILL, of the firm of Wm. E. Hill & Co., Kalamazoo, Mich., has started on an extensive tour of the Southern States in the interest of his firm. A. J. Carson, general traveling agent for this company, has lately started for the Pacific coast, where he expects to remain some time. This company has a large and growing trade in their celebrated special patent saw and shingle mill machinery.

ENGINES and boilers of all sizes and kinds are manufactured and sold by Armstrong Bros., Springfield, Ohio, as will be seen by their advertisement in another column. They also have a lot of second-hand goods in stock which will be sold very cheap. This firm sold 1,473 engines and boilers last year to all parts of the country, and they have worked up a particularly good trade in the South.

THE Hinds-Ketcham Co., of Brooklyn, N. Y., artistic color printers, issue a most elaborately and highly colored calendar for 1890 as a sample of their work. It is one of the most striking calendars of the season. The company has offices in New York, Chicago, Boston, Philadelphia, Pittsburgh, St. Louis, Kansas City, Astoria, Ore., and are represented in Baltimore by Mr. E. S. Mapes, whose office is in the American Building. They claim to have the largest establishment in the world devoted exclusively to such color work.

A NEAT catalogue has just been issued by George Peacock, of Selma, Ala., illustrative and descriptive of his patent automatic, self-oiling tram-car wheels, axles, car irons and mining cars of all sizes and descriptions. This catalogue describes the improvements made by Mr. Peacock during the past year in the quality and conception of his products. Being near the midst of mining regions, he has benefited by all the needs of improved methods. In the delivery of the manufactured product he has great advantage over Northern manufacturers and can save in freight rates, an advantage which Southern purchasers will appreciate. Copies of this catalogue and information regarding the products can be had upon application.

FLETCHER & THOMAS, Indianapolis, Ind. report their brick machine trade, especially throughout the South, as better than ever before. They have just shipped the Peerless Brick Co., Bessemer, Ala., a complete steam outfit; also have just sold John Hickson & Co., Lynchburg, Va., a complete combined outfit, besides a dozen or more outfits, both horse and steam powers, to different points in the South.

NEW and second-hand woodworking machinery will be found advertised in another column by G. H. Scanlan & Co., of Portland, Me. This firm deal in all kinds of high-grade machinery for saw mills, shingle mills, planing mills, carriage and piano factories, furniture and chair factories, sash, door and blind factories, and cooper and box shops. Catalogues and lists of second-hand machinery can be had upon application.

THE Fulton Iron & Engine Works, of Detroit, Mich., are sending out their 1890 illustrated catalogue of the well-known Detroit tools. These include combined anvils and vises, tire upsetters, tire benders, iron shears, hand punches, fire-pots, ventilators, new style couplings and a variety of blacksmith and other tools. The illustrations depict very accurately the style of these tools, and are accompanied by descriptive matter and price-lists. The excellent testimonials published in the catalogue are the best indication that the reputation made by this company in their 35 years of business is well deserved.

AN improved substitute for the old-fashioned lime mortar will be found advertised in another column by the Fitzgerald Patent American Compound Co., of Huntington, W. Va. This compound has more tenacity than the old mortar, can be mixed as wanted and applied immediately. A minimum amount of water is required, and it dries within a few hours. There is no danger of its freezing, and little fear of cracking. It is claimed to be water-proof and fire-proof, and being non-porous, is not liable to absorb germs of disease. In many uses this plaster would be almost invaluable. Builders and architects should send for catalogues.

**"THE COLLIAU"**  
NEW AND IMPROVED  
HOT BLAST CUPOLA,  
(patent March, 1884), and New  
Smokeless and Automatic Feed  
Boiler (pat. 1886, in U. S.)  
Correspondence solicited for  
plans of foundries and the economical  
working of cupolas, the saving of fuel in melting  
iron and steel, and in the production  
of steam. Address VICTOR  
COLLIAU, Mechanical Engineer and Architect, 287 Jefferson  
Avenue, Detroit, Mich.

**JAS. P. WITHEROW.**  
ENGINEER & CONTRACTOR,  
Furnace & Steel  
Plant Construction.  
PITTSBURGH, U. S. A.

Blast Furnaces and Steel Works designed and erected complete in every detail ready for operation. Special attention given to the manufacture of

**HEINE**  
Safety Water Tube Boilers.

Owning an extensive manufacturing plant, I can guarantee promptness in execution, and satisfaction in any contracts undertaken by me.

FOR  
**Ice-Making & Refrigerating  
MACHINERY,**

ADDRESS THE  
**Ring Refrigerating & Ice Machine Co.**

OFFICE:  
**213 CHAMBER OF COMMERCE,  
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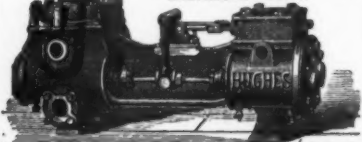
**DON'T BUY AN  
ENGINE  
OR  
BOILER**

Until you have seen our circulars. Engines complete from 5 to 110 horse power, both Vertical and Horizontal, at prices below those of other reputable makers. 1400 in use. Boilers of every style. Automatic Engines for Electric Lights. Centrifugal Pumping Machinery for Drainage or Irrigation. Established 25 years. Perfect satisfaction guaranteed. Ask for Circular M and address

**Morris Machine Works,**  
BALDWINVILLE, N. Y.

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MANUFACTURERS OF  
Single, Duplex and Compound Pumps  
FOR ALL DUTIES.  
WATER WORKS PUMPING ENGINES.  
SEND FOR CATALOGUES AND PRICE LISTS,  
Uonagan & Swift, New York Agents.  
T. R. WINGROVE, 324 NORTH ST.  
BALTIMORE AGENT.



**THE JACKSON & WOODIN MFG. CO.**  
Cast Iron Gas and Water Pipe and Castings  
OF ALL DESCRIPTIONS.  
Berwick, Columbia Co., Pa.  
FREIGHT CARS, CAR WHEELS, BAR IRON,  
SPECIAL CASTINGS.

**Batts Patent Defferential Hoist.**  
MANUFACTURED BY THE  
**Boston & Lockport Block Co.**

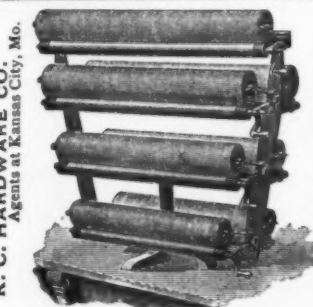


162 Commercial St.  
**BOSTON.**

The chief merits of this hoist that we wish to bring to the public notice is that it only requires

**ONE MAN TO  
Hoist the Load.**

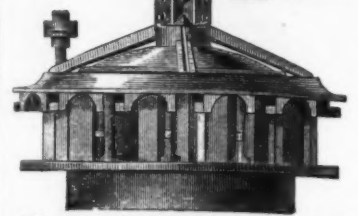
It is also far more compact, taking up less room than any other make, and will hold the load at any point. Send for circular and prices. Every hoist warranted.



**American Screen Wire Holder**

Patented April 17, 1888, is manufactured by  
**JOHN HOSFORD, Monroeville, Ohio.**  
P. O. Box 96.  
Arranged to hold seven rolls of wire of different widths; no trouble to load the holder with wire. Send for descriptive circulars and testimonials.

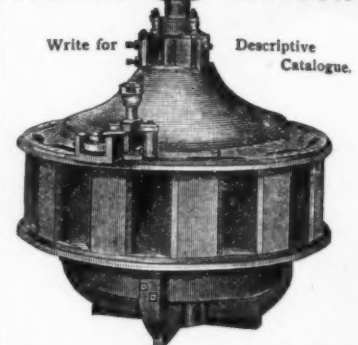
**SUCCESS**  
**Water Wheel.**



This Wheel is strong and durable. Excelled all other wheels in the great trial tests. Is in use all over the nation. I also make a specialty of  
**HEAVY GEARING & MACHINERY**  
For Paper, Cotton and Grist Mills.

**S. MORGAN SMITH, York, Pa.**

**THE IMPROVED LANCASTER  
Turbine Wheel.**



Write for Descriptive Catalogue.

**Lancaster Turbine Wheel Co. Lancaster, Pa.**  
**Rome Foundry & Machine Works,**  
**ROME, GA.**

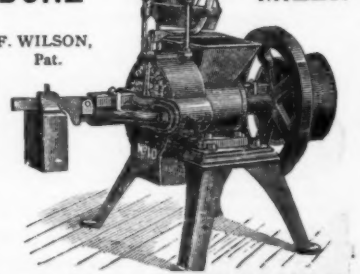
Manufacturers of the well known  
**DAVIS DOUBLE TURBINE**

**Water Wheel**



Beyond all question one of the best Wheels on the market, and is fully guaranteed.  
Send for Illustrated Catalogue and Price-List.  
ALSO MANUFACTURE  
**Portable & Stationary Engines  
AND BOILERS.**  
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**BONE MILLS.**



**F. WILSON, Pat.**  
For the Farmer and Bone Dust Manufacturer. Will grind bones green or dry. Circulars and Testimonials on application.  
**Wilson Bros., Sole Manuf'rs, Easton, Pa.**



# CITY OF GRAND RIVERS,

## KENTUCKY.

### A New Industrial City of the South.

**S**ITUATED upon a narrow strip of land between the Tennessee and Cumberland rivers near their entrance into the Ohio, practically in the Mississippi Valley, forming a system of river transportation unequalled by any location in the South, being by river or rail several hundred miles nearer the great Western markets. The Newport News & Mississippi Valley Railroad runs directly through the Company's coal, iron and city property.

Chief among its resources are its immense banks of brown hematite iron ore, existing in gigantic pockets and showing enormous outcroppings from leads extending over thousands of acres of the Company's lands, assays from which show metallic iron 50 to 66 per cent, with practically no phosphorus or sulphur.

Pig iron can be laid down in Pittsburgh from Grand Rivers, by reason of its river system of transportation, \$2.50 per ton cheaper than from Birmingham, Ala.

The quantity of coal upon the Company's lands is practically inexhaustible, its measures, eleven in number, ranging from four to seven feet in thickness, and available upon nearly all of the three thousand acres of the Company's coal lands. This coal has been found to possess superior qualities as a coking, steaming or domestic coal.

As a manufacturing center Grand Rivers has no equal in the South. The saving to the manufacturer from its cheap

rates of freight and cheap coal will prove a source of profit equal to a liberal dividend upon his invested capital.

The Company own 21,000 acres coal, iron ore and timber lands convenient to its furnaces, together with 3,000 acres city lands situated upon the banks of both rivers.

Surveys are nearly completed, and the streets are being graded. Industries of various kinds are now locating their plants and in a short time there will be seen a rapidly growing and substantial city.

A building association has been formed for the erection of permanent brick buildings for business purposes and dwellings, operations upon which have already commenced. A bank is being organized. Two large charcoal furnaces are under contract, and numerous other industries in contemplation.

Thus, with ample capital, Northern enterprise and good management, Grand Rivers will take a prominent position in the great manufacturing cities of the South.

The Company offer the most liberal encouragement to manufacturers wishing to establish plants there, and will give to them every facility in their power to make their enterprises successful.

The city lands are now being platted, streets graded, and everything put into an attractive condition for visitors and investors.

## The Lots will be Offered For Sale APRIL 2d,

WHEN AMPLE ACCOMMODATIONS WILL BE PROVIDED FOR ALL WHO MAY ATTEND THE SALES.

FOR INFORMATION, PRINTED MATTER AND EXCURSION RATES FROM BOSTON, ADDRESS

**BROWN, RILEY & CO., BANKERS, 9 Congress St., Boston, or GRAND RIVERS COMPANY,**  
Grand Rivers, Livingston County, Kentucky.

## CAPITAL - - - \$3,000,000.

PRESIDENT, - - ARETAS BLOOD, Manchester, N. H.  
VICE-PRESIDENT, - W. W. SMITH, Nashville, Tenn.

ATTORNEY, - - JAMES NORFLEET, Grand Rivers, Ky.  
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JAMES L. HALL, Kingston, Mass.

### A Northern Lumberman's View of Southern Lumber.

"The South presents better opportunities for making money in the lumber lines than any other section," said Mr. A. G. Van Schaick. "I have just returned from a three weeks' trip through the principal lumber sections, and am greatly surprised at the rapid improvements that have taken place the past three years. The cotton crop brings the Southerners in a large amount of money, as the bulk is exported. The money is being spent for improvements, and new buildings are seen in process of erection on every hand. The consumption of lumber there is large, but the export trade is greater than few have any idea of. We made a thorough examination of the timber lands and the management and workings of the saw mills at all the leading points. The Southern mill men have a better market for their common lumber than the Northern mills, and make a larger profit on it. At the same time, however, the Southerners do not get as high a figure for their good lumber as we do. After we get out of good lumber the situation will change, and the Southern mills will have a chance to sell their good lumber to better advantage. The common lumber then will not bring as much profit as now. Northern logs that cost \$4 in the tree do not produce as much as Southern logs that cost 50 cts. per 1,000 feet. Common lumber brings 5 cts. per 1,000 feet more at the mill than it does in the North. Northern lumbermen would be fools to invest in pine lands in the North at \$4 an acre when they can buy land that is as good in the South for one-tenth the price. Southern lumber cuts out 2½ per cent. below merchantable, while Northern logs cut 7 to 10 per cent.

Let me show you the difference between the Southern and the Northern prices at mill. Three-inch joist, 16 feet in length, are sold in lots of 500,000 to 1,000,000 feet for export to load in vessels at \$10 at the mill. The same retails here at \$12.50, or at \$9 net at the mills in Michigan. Common inch sells at \$8 to \$10, while the same only brings \$7.50 at Manistee. At Pensacola we saw two vessels loading 500,000 feet on each side of a mill. One cargo was for Buenos Ayres and the other for Amsterdam. This shows that their lumber goes in all directions. We traveled along the Gulf from Galveston, which is the most westerly port of Pensacola, and visited all the important shipping ports. At the latter port we went out into the harbor expecting to see a dozen or so of vessels. We were never more surprised in our lives when we counted 95 square rigged vessels ready to load lumber for foreign ports. The shipments from Pensacola last year to foreign countries were 623 cargoes, equal to 350,000,000 feet of lumber. There were also 75,000,000 feet shipped out by rail. One firm shipped 146 cargoes, or 90,000,000 feet of lumber. A feature that struck me most forcibly was the sale and shipment of two cargoes of bridge timber from Orange, Texas, to Portland, Maine, for the Grand Trunk Railroad. What made it impress me so strongly was the fact that the boats had to pass every lumber port on the Gulf and Atlantic but Galveston and carry its cargo into a lumber country. After they are unloaded at Portland the railroad will haul it through a timber country. It is a good deal like taking coals to New Castle.

The Southern lumbermen have all the advantages of the Northern lumbermen. They can profit by the rapid development of the country by railroads which enable them to market their product very readily. They have a demand for it which the Michigan men did not have in the early days. In the way of machinery they have the advantage of the great improvements made during the past fifty years. More money will be made in lumber in the South

than there ever was in the North, there being about double the quantity of timber there that there was in the States of Michigan, Wisconsin and Minnesota fifty years ago. It does not cost more to handle logs in the South, White men and negroes work side by side. In one mill I saw a negro setting the saw and two white men adjusting the dogs. The negro was next



FIG. 1.—ROBIE PATENT SCREW JACK.

to the foreman of the mill. A strong point in favor of the Southern mills is that they can cut more lumber in the same space of time with their circular saws, and cut it as good as any mill in the North. For instance, they will cut 60,000 feet a day of eleven hours with a single circular, while we cannot cut 45,000 to 50,000 feet in ten hours. The South is the coming lumber country."—Mississippi Valley Lumberman, of Minneapolis, Minn.

### Robie Patent Screw Jack.

The ordinary form of screw jack has several serious defects in operation which are well known to every engineer and mechanic. One is, that when the screw is raised to an undue height, there is always

These difficulties have been overcome, and the screw jack made as complete for all lifting purposes as the hydraulic jack. The following description and illustrations will make its construction plain:

A is a pedestal, made hollow for the reception of the power screw C, and flaring at the low end to form the base or support. In the upper end of the pedestal is a circu-



### The Akron Aluminium Cotton Elevator Fans.

The requirements of satisfactory cotton elevator fans are:

1st. That they should rapidly handle and elevate seed cotton, cotton seed and cotton hulls.

2d. That they should be efficient as a

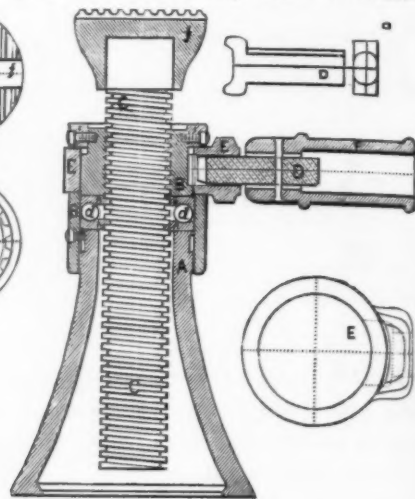


FIG. 2.—SECTIONAL VIEW.

lar groove a, and another groove, c, is turned in the side of the pedestal a short distance below the upper end. The hooded nut B extends over the sides and is held in place by a set screw, which revolves in the groove c, so that the nut B cannot be accidentally detached if the jack is upset. A series of balls is interposed between the upper end of the pedestal and the bearing surface of the nut B, and the power screw c passes through the nut B, by which it is worked.

The upper end of the screw c is furnished with a removable head or rest, f, to give a wide bearing at its point of contact with the weight to be raised. The power nut B is provided with openings for receiving the operating lever, or a ratchet attachment may be used.

cotton cleaner and drier.

3d. That they should improve damp and dirty cotton during its transmission.

4th. That they must loosen the cotton and assist the gins to do more work.

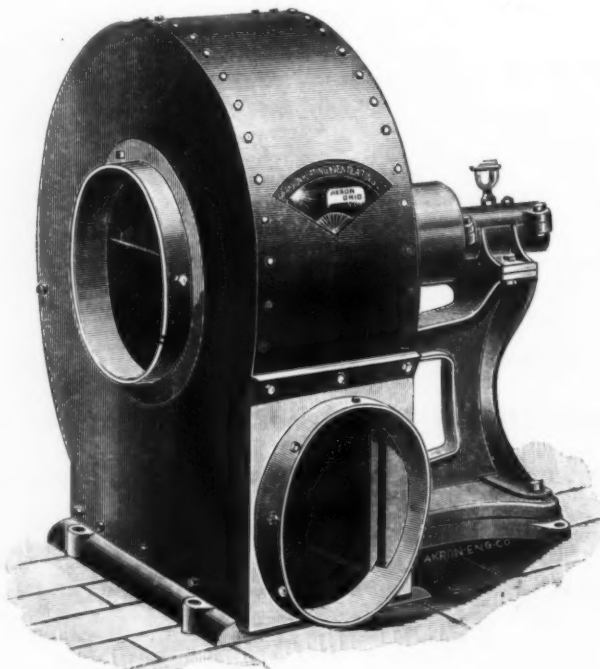
5th. That they must be light-running and offer the least possible friction.

6th. That the danger of firing the cotton be reduced to the minimum.

Realizing these facts, the Akron Heating & Ventilating Co., of Akron, O., offers a cotton elevator that, it is said, gives the desired results. The virtue of a composition of aluminium and iron has been taken advantage of by this enterprising firm when constructing the moving parts of their cotton elevators and blowing for planing mills, etc., which run at a high rate of speed. It is claimed by them that they gain largely in strength and are thereby able to reduce the weight of the moving parts to the minimum. The peculiar construction of the wings of the fan prevent balling of the cotton. They are self-cleaning, and, the manufacturers claim, will handle more cotton with less expenditure of power than any other fan. The fans are balanced to a nicety and must run perfectly true before they are considered finished. They are constructed so as to run noiseless and without care, being provided with self-oiling and adjustable bearings. Great care has been taken when designing these elevators to overcome all weak points which have heretofore existed in the construction of various other cotton elevators. The thorough, systematic management of their shops and rigid inspection of all their machines is worthy of commendation. Particulars may be obtained from the company or their representatives, Messrs. Miller & Bierce, Cotton Exchange, Memphis, Tenn.; H. A. Haralson, Jr., Florence, Ala.; George M. Dilley & Son, Pine Bluff, Ark.

### The New Quaker Brick Machine.

Improvements in clay-working machinery are continually being made, and probably no firm has made more progress in this respect than Fletcher & Thomas, of Indianapolis, Ind. The Quaker machine was, it is said, the first that ever worked successfully the stony clays of Central Indiana, its principle being a horizontal pressure, forcing the tempered clay against a beveled front wall and down through the die into the molds in such a manner as to render it impossible for stones or other obstructions



THE AKRON ALUMINIUM COTTON ELEVATOR FANS.

danger of springing it by the power exerted. Another defect lies in the application of the power directly underneath the cap, making it very inconvenient to work in most cases. The most serious defect of all, however, is, that when there is a great force exerted, the cap turns with the screw by the friction produced, and is twisted from under the weight.

The operation is readily understood, the jack being placed under the weight and the power nut turned by means of a lever, or ratchet, causing the screw to be fed upward, and the weight lifted. The power nut remains stationary, so far as a vertical movement is concerned, and rotates upon the anti-friction rolls or balls. Messrs. Riehle Bros., Philadelphia, are the manufacturers.

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to cause a breakage. This machine is noted for its simplicity and strength. Following this was the invention of the Fletcher & Thomas spiral pug mill, which effectually did away with the dirty, sloppy soak pit, the eyesore of every brick-yard. This pug mill is for attachment with any tempered mud steam machine. The clay is dumped directly into it and the water

Fletcher & Thomas' spiral pug mill and Champion mold sander, capacity 35,000 to 40,000 per day, as used in Fletcher & Thomas' brick-yard, Indianapolis, Ind.

#### New Style Hog Ringer.

The Wolverine hog ringer is a device for ringing the nose of swine to prevent root-

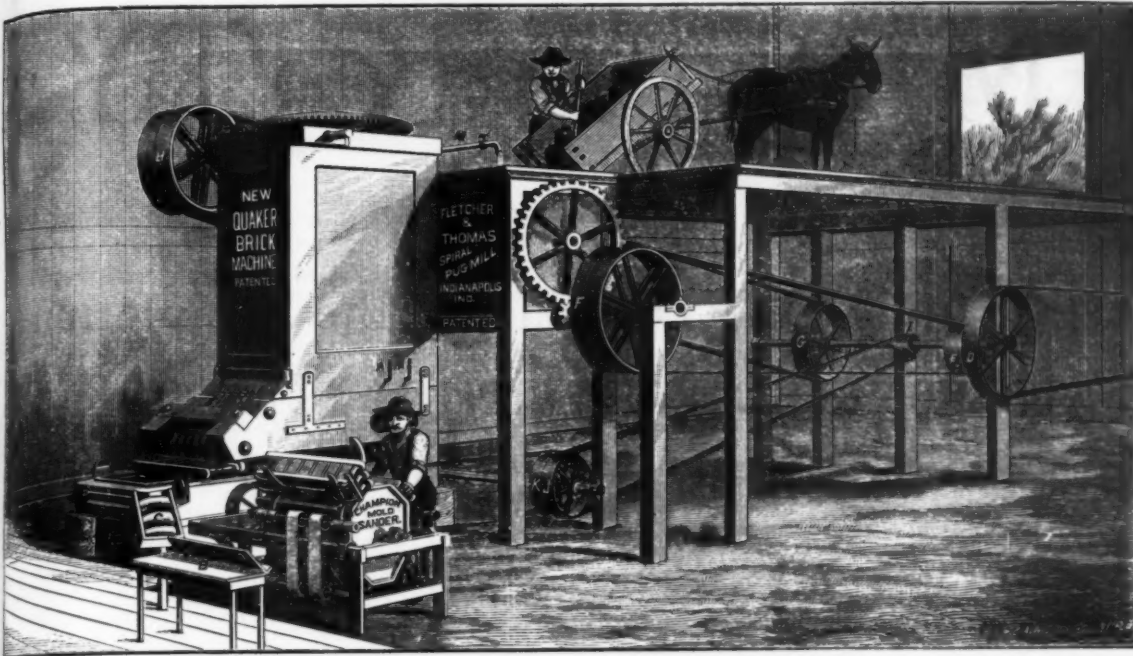
obstacle, such as stones, etc., thus preventing breakages. Another advantage in having the knives and sweep detachable is that, in case new ones are ever needed the old ones can be taken out and new ones inserted without taking out the shaft, or moving the hub, or disturbing any other part of the machine. A special device for letting stones and other obstructions escape

the length of machine 6 feet when in operation. The weight of the steam-power machine is 6,000 pounds. The weight of the horse-power machine is 5,300 pounds.

This machine grinds its own clay well, and at the same time does its own molding successfully, feeding the clay down in front of the plunger, pressing the same horizontally and so evenly that the bricks at the ends and at the center of the molds are just alike and will shrink alike in burning.

It makes 6 bricks at once with each stroke. No wires or knives are used. It keeps the clay in the molds without releasing the pressure until the filled mold is started out from under the press box and is delivered over four iron rollers to the front of the machine.

It is a thorough temperer, mixing and grinding the clay with as many as twelve



THE NEW QUAKER BRICK MACHINE.

applied as required, the spiral knives, cutting and stirring and mixing, slowly conveying to the machine end and forcing the thoroughly tempered clay into the back of the machine, which it keeps full as high as the top of the pug box. With this pug mill one man can easily handle 30,000 to 40,000 pounds of clay per day, and works on a dry floor, doing the work of 3 to 5 men in the old way. The machine receives the mud and continues its tempering as it passes down, so that it enters the molds in a most perfect and even condition.

The mold sander machine is another great step in the advancement of labor-saving machines in brick making. This was always a dirty, dusty job, requiring a strong and expert man. It is now rendered by this machine the lightest, and is performed by a 15-year-old boy.

The new Quaker horse-power machine, represented on this page, is the machine for small yards and where a small investment only can be made. It is the same in principle as the steam machine, and can be changed by the addition at any time of the proper gearing to make a light steam power machine.

Fletcher & Thomas are also the inventors and patentees of the hacking pallets for drying brick. This system, or the rack system of pallets for handling brick, is coming into almost universal use, by which the brick are protected from loss by rain,

ing. From the beginning the inventors have kept this feature in view, viz., that they should be so constructed as to work on hogs of all ages. When the ring is in their nose they are entirely deprived of the power to root.

The illustration shows a new improved double-acting hog ringer. It is claimed that "this ringer has a great advantage over all other ringers, and gives better satisfaction than any other ringer now in use." It can be used for small pigs and also for the larger size of hogs. Each jaw has its own gauge; this will set the ring always in equal distance from the rooter. Messrs. Heesen Bros. & Co., Tecumseh, Mich., are the manufacturers.

#### The New Improved Chief Brick Machine.

This machine is constructed entirely of steel and iron. The main shaft is of solid steel three and one-half inches in diameter, and is not weakened by having holes drilled through it for attaching the knives. The knives attached to the main shaft are made detachable, so that they can be placed at any desired distance apart, or the number of them can be increased or diminished, according to the consistency that the clay is required to be tempered or pugged. The knives are made of wrought iron, hammered into the most available

without damage to the machine is wonderful in its operation and positive and sure in execution.

The cylinder or drum is boiler iron, is 42 inches in diameter and 52 inches high, is well riveted and has a strong iron base. The boxes and bearings are all well babbed and all outside of the drum, and entirely protected from mud, sand or water. Brass oil cups with tubes leading to the bearings are attached so that the machine can be easily and conveniently oiled from the outside while in operation. The bottom, the plunger, the plunger plate, the side walls, the relief plate, the cross-head, the connecting rod, and the die, are all well planned and fitted. All the parts are adjustable, so that lost motion or wear that may occur in time can be easily taken up so as to prevent leakage, etc. When necessary new parts can be duplicated at very small expense and inserted into proper position by any one without any trouble. The sills are also iron, under which are adjustable axles and iron wheels, so the machine can easily be moved in any direction. A substantial door or hand hole, large enough to admit a shovel, is adjusted to the side and close to the bottom of the cylinder, through which the inside is made accessible for cleaning or removing any firm substance that may find its way into the machine. This door enables one to get into the bottom of the drum and at the sweeps and knives without digging from the top down through the mud. Horse-power machines can be changed to steam power, as both are of the same size. The steam attachments are placed on top of the machine as represented in the cut. All other gearings are under the iron bottom of the machine and well protected from any mud or leakage. The machine is provided with a quick and positive device for throwing it out of gear in an instant. It is also provided with a device attached to a lever that regulates the pressure of the clay from the press box into the brick moulds, so that clay can be worked at any desired consistency to suit the temper of the mud, and always insures a perfect brick.

It requires but little space or room, as the height is but 8 feet and width, 5 feet, while

adjustable knives, or any less number to correspond with the nature of the clay, so that the bricks will stand any climate and not crack in drying or burning. It fills the molds solid, until the cylinder is nearly empty of clay, making sharp edges and corners, so that the brick will find a ready market as front brick at highest price. This company has 27 of their machines in Omaha and 17 in Denver in use. It is said to be the only machine that has been used successfully in this section for the manufacture of soft mud brick. The Anderson Foundry & Machine Co., of Anderson, Ind., are the manufacturers.

#### Spragg's Hoisting Device.

The Spragg patent hoist or lifting machine, a cut of which is shown on this page, is a new device gotten up on new principles. One of the main features of the machine is the self-adjusting or automatic brake, which works direct on the rope and holds the load at any point with-



SPRAGG'S HOISTING DEVICE.

out fastening the rope, insuring safety and avoiding all accidents while lifting heavy or light loads to any desired height. These machines are made of the best malleable iron, with wrought iron hooks, and are fully guaranteed. They are sold at prices that place them within the reach of everybody. For full particulars address Palmer, Cunningham & Co., Limited, 607 Market street, Philadelphia, Pa.



NEW STYLE HOG RINGER.

and also are handled for much less expense than by the old system. The mule trucks for handling the dry brick from the yard to the kiln, by which much expense and heavy labor is saved, and numerous other labor-saving devices are inventions of this firm.

The accompanying cut shows the new Quaker brick machine combined with

shape for cutting, grinding and tempering the clay. The spider or sweeps attached to the main shaft for throwing the mud into the press box in front of the plunger is made also detachable, and has attached to them a strong spring in order to keep the sweeps close to the bottom of the machine and at the same time allow the sweeps to spring up and over any hard

# **A Glorious Day for** **THE • MAGIC • CITY.**

## **THE SUBSCRIPTION VOTED** securing the completion **of THE ROANOKE & SOUTHERN RAILROAD**

From Winston, N. C., to Roanoke, which means a large immediate increase in population, and opens up to the merchants and manufacturers of Roanoke a rich back-country. This, the most important matter ever brought before the freeholders of the city of Roanoke, was carried unanimously. This railway is now completed from Winston, N. C., to Martinsville, Va., and will reach Roanoke within a few months.

This will make Roanoke the commercial emporium not only of Southwest Virginia but also of Western North Carolina.

## **Now is the Time to INVEST in ROANOKE REAL ESTATE**

### **Over One Million Dollars**

Has recently been invested in industrial enterprises which are now under way. Capitalists from all sections of the country are invited to investigate the unequalled advantages of our city, bearing in mind that

**No Investor in Roanoke Real Estate has ever Lost a Dollar.**

And all industrial enterprises pay handsome dividends. There is a great demand for houses of all classes and parties who will invest their money in that way can rest assured of realizing from ten to fifteen per cent.

**POPULATION 1880 400, 1890 20,000.**

MR. KIMBALL, President of the Norfolk & Western Railroad Co., says: "The improvements contemplated by my company alone will add 5,000 to the population of Roanoke within the next two years, and by January 1st, 1892, there should be 30,000 people here. This I regard as a conservative prediction." We know our business and refer *by permission* to the banks named below as to our reliability. We will execute orders for non-residents with the same discretion as if they were on the ground. Parties desiring information in regard to Roanoke would do well to address us at once.

REFERENCES: CHAS. G. EDDY, Vice-President Norfolk & Western Railroad Co., Roanoke, Va.; H. S. TROUT, President First National Bank of Roanoke, Va.; J. W. COON, President Commercial National Bank, Roanoke, Va.; S. W. JAMESON, Treasurer Roanoke Trust, Loan & Safe Deposit Co., Roanoke, Va.

**SCOTT & RIVES.**



# —DAVID BOYLE,—

521 W. Monroe Street, Chicago, Ill.

PATENTEE AND BUILDER OF THE

## BOYLE ICE MACHINE AND REFRIGERATING APPARATUS.

The Most Simple, Reliable, Durable and Economical in Existence.

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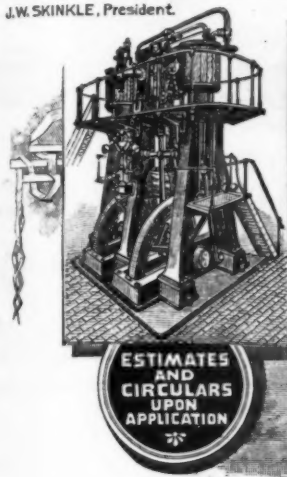
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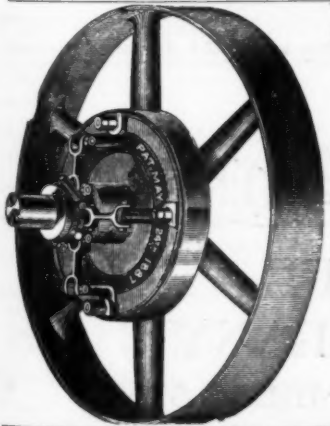
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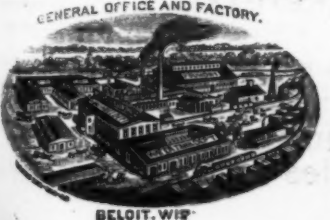
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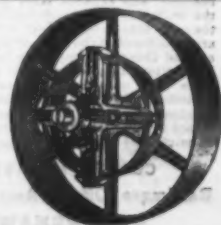
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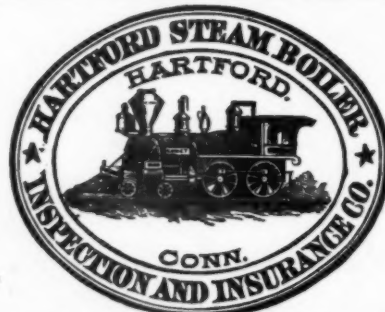
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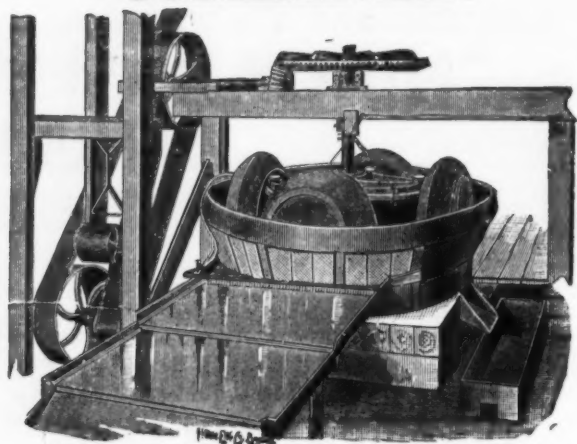
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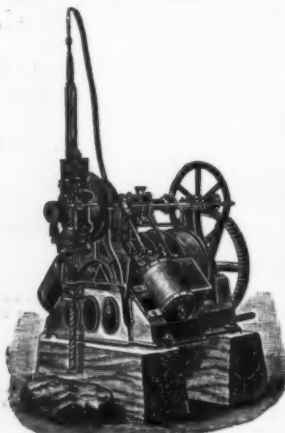
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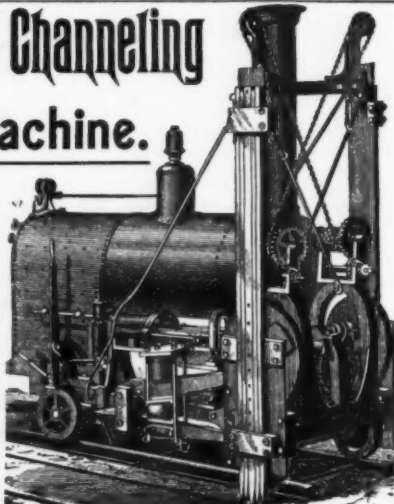
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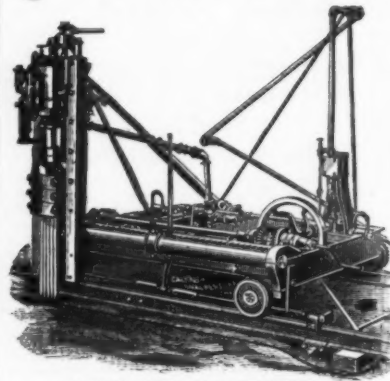
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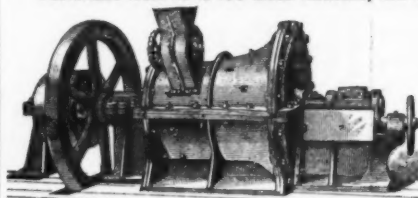
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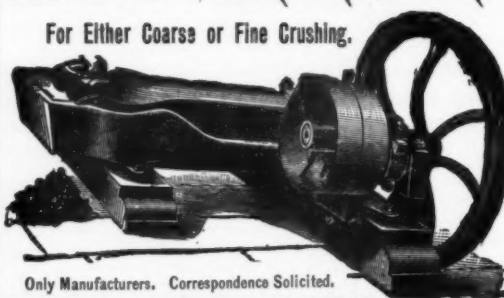
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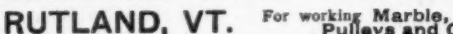
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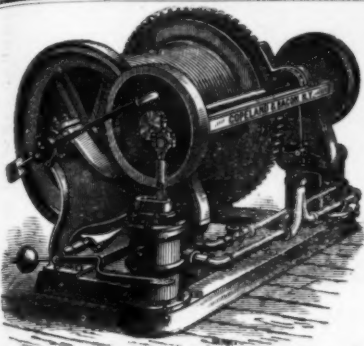
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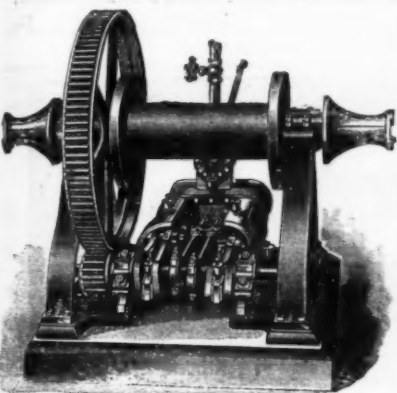
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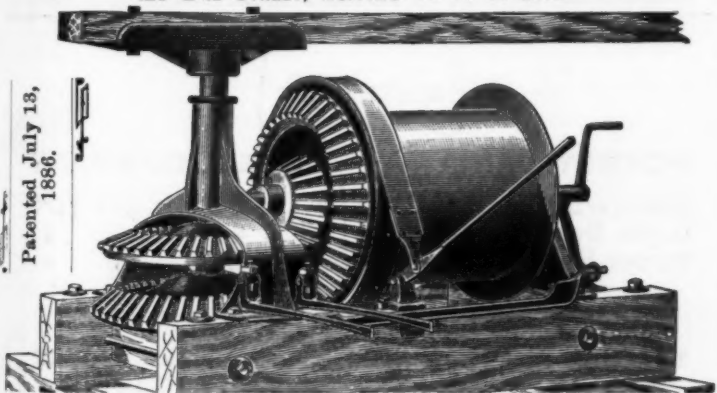
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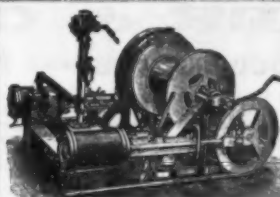
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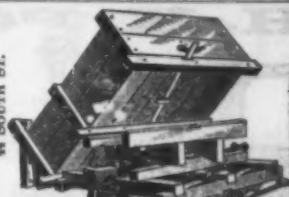
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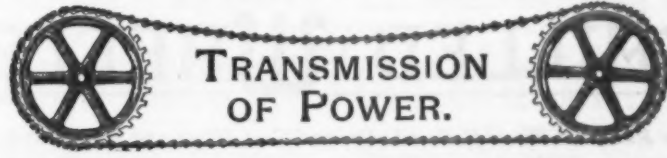
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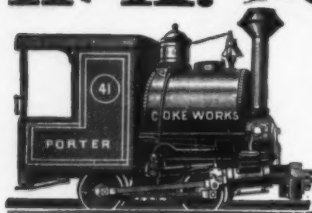


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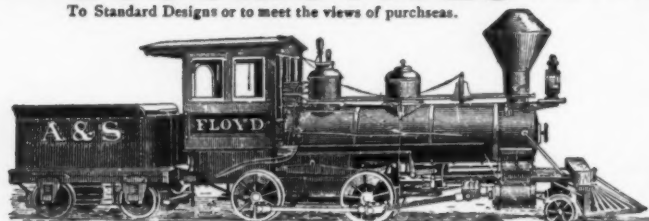
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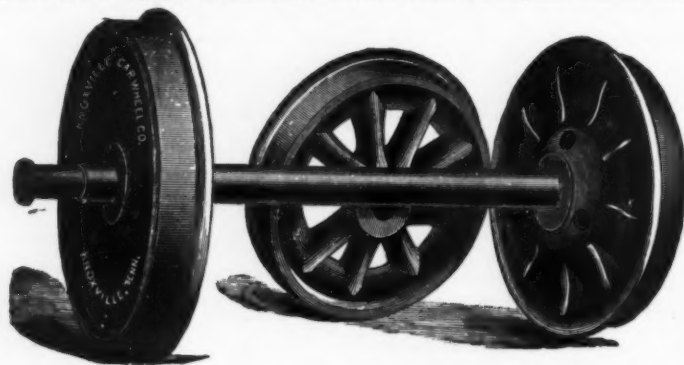
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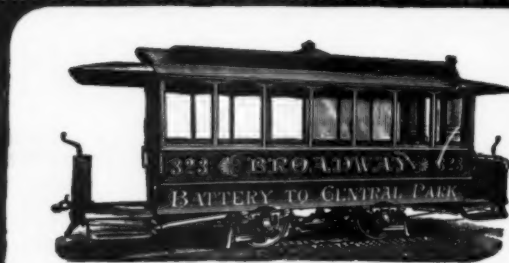
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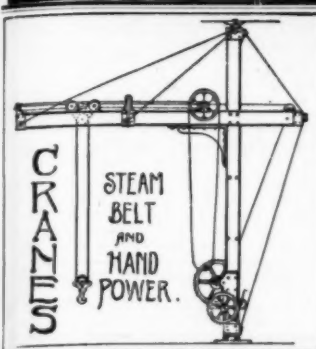
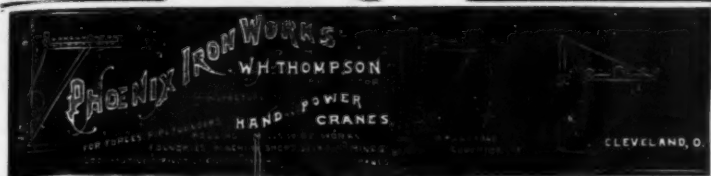


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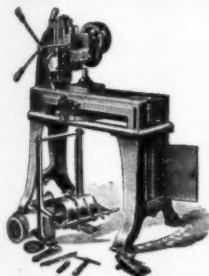
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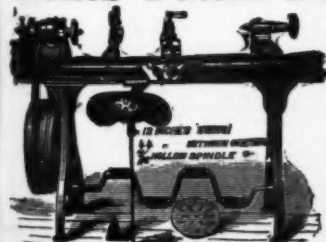


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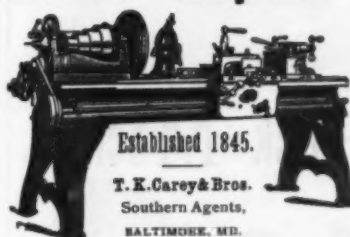
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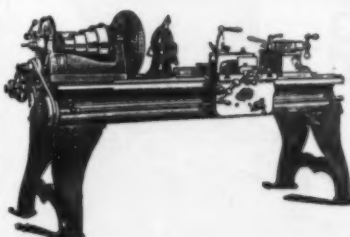
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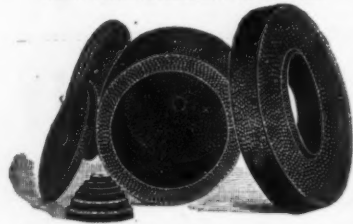
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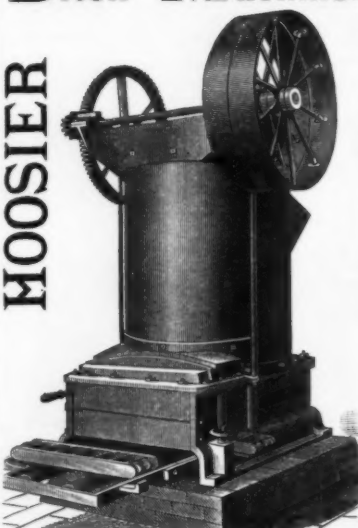
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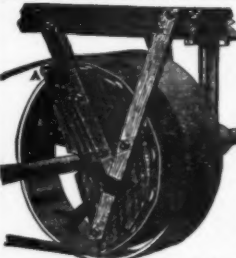
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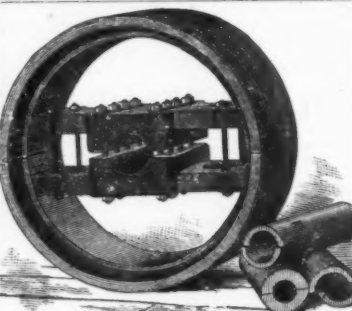
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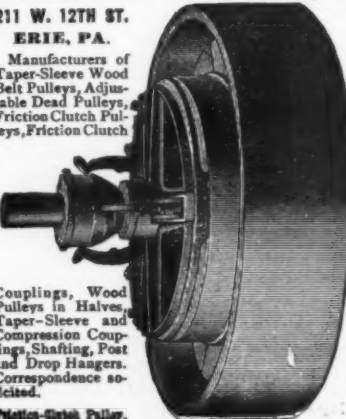
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to-day, by any firm, under the four  
different guarantees given above by this  
house, and we challenge a public contradiction  
of this statement.

**OUR BOOK ON TIN ROOF  
WILL BE FURNISHED FREE  
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Wire Railing for Cemeteries, Lawns, Gardens, Offices  
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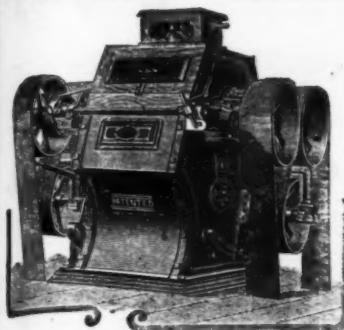


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OFFICE OF PETER SNYDER,  
DEALER IN FLOUR, FRIED AND LUMBER,

MANLIUS STATION, N. Y., October 28, 1889.

The Case Manufacturing Company, Columbus, Ohio:

GENTLEMEN: After running my mill over two months, I feel it my duty and in justice to you to state that I am more than pleased with the mill you built for me. It started like a clock "from the word go". My flour is discounting the fanciest brands of flour in the market. My clean-up is equal to any mill in the State. I will say that the Case Rolls and Flour Dressers cannot be beaten in the world for light running and ease of access to all their parts. I would advise any miller building a new mill or remodeling an old one to place their contract with the Case Company.

Thanking you for the prompt and efficient manner in which you furnished my machinery in so short a time, after so great a loss and damage by fire burning your works, and with the best of wishes I remain,

Yours respectfully,

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## THE CASE MANUFACTURING CO., Columbus, Ohio.

### ROANOKE'S MAINSPRING

How Wide-Awake, Honest Real Estate Operators Have Helped to Build a Booming City.

A Word Concerning the Great Firms That Are Keeping Virginia's "Magic City" in the Front Rank of the Progressive Procession.

#### THE POWER OF MEN AND MONEY.

[Spec. corresp'dence MANUFACTURERS' RECORD.]

ROANOKE, VA., March 17, 1890.

Men of genius are not invariably the "ruling factors" in the growth and prosperity of a city. Tact, business push, honest and fair dealing mould the destinies upon which success is based. Having resided for some time in the North, I was impelled by the remarkable activity manifested in this section, by the great industrial awakening, to enter and by personal observation ascertain its wonderful progress. Naturally the first thought suggested was what has caused this increasing momentum in the industrial race? what advantages are presented? and to whom is the debt of gratitude payable? The three questions can be answered almost simultaneously, and do not require a very searching examination of history to reach the direct causes that have been instrumental in placing Roanoke as the mainspring from which all other movements in this section have originated. This city is entitled to, and will have in the future, the credit for having inaugurated a movement the prosecution of which will place Virginia in the front ranks of the States of the Union. Its unprecedented success as an industrial and business center has even caused a friendly rivalry with towns both contiguous and remote, and the spirit of progress has become contagious. The vast mineral wealth which prompted the introduction of capital seeking profitable and reliable investments has been the direct influence. The last question then, to whom is the debt payable for this great development of Roanoke now claims attention? Unhesitatingly, it can be traced directly to the real estate operators who have managed, directed, suggested and carried into execution measures that appear to be almost impossible and beyond human ingenuity or possibility. Through their influence with Northern and Eastern capital, development companies were organized, land organizations perfected, enterprises and industries established at a time when there were not "millions in it." Their judgment was regarded by speculators as reliable, and purchases were made and stock subscribed by men of means, because they had thorough and implicit confidence

in them. The real estate agents of this city are the "bone and sinew" of the city's development, and to-day no class of business men stands higher, more honored and respected than the real estate operators of Roanoke city. Among the firms that have contributed toward keeping this city in the front rank of progress I find

JAMES S. SIMMONS,

who constitutes the firm of James S. Simmons & Co. He is the "pioneer" agent of this city as well as the most successful one, a young man, honest, reliable, prompt in the transaction of business matters. He is a man possessing excellent business qualifications, and when he adopted "real estate" as his vocation in life, he struck the keynote to success. He has been instrumental in forming at least a dozen land companies in this city and everyone has been the means of inducing capital to flow in, and this city has reaped the advantage of his judgment. He is one of the men that the city of Roanoke owes a debt of gratitude it can never repay. The people admire him, and the city has not a truer, warmer, more ardent supporter. While he is surrounded by business and employs a corps of assistants, one can enter his office on Jefferson street, and be treated with the utmost consideration and attention. He is a liberal, but judicious advertiser, and his success is due in a large measure to this one cause.

Another firm which enjoys the confidence and respect of the people is that of C. O'Leary & Co. This firm is composed of C. O'Leary and A. D. Rice, who for several years were connected with the Roanoke Land & Improvement Co., which started the great awakening that is now prevailing in this city.

They are industrious, progressive, and therefore prosperous, and have been instrumental in promoting the material advancement of this city to a considerable extent. They have witnessed the phenomenal growth of Roanoke, and have largely contributed to placing it in the front rank of industrial enterprise by their well directed efforts. In the establishment of manufactories that would prove beneficial to the city this firm can always be found ready and willing to subscribe their proportionate part, and without waiting to see the result of their labors, have ever been ready to enter "heart and soul" into every movement for the success of Roanoke, in consequence of which they have been important and almost indispensable factors in the growth and future prosperity of this thriving industrial center. By close application to business and plain, honest, straightforward dealings with the people they possess the unlimited confidence of capitalists, and their opinion is regarded as "worthy of deep consideration." On their books can be found the names of leading representative men who have confidence in their judgment and are guided

by their advice in the purchase of property: in a word, they are sound, practical, reliable and substantial men to deal with, and investors run no risk when they accept the advice given by this firm, because they are men of honor, and full reliance can be given to their assertions.

\* \* \*

Located on Campbell street and near the office of the above firm is noticed the sign of

L. L. POWELL & CO.,

another pushing and wide-awake agency. This firm is composed of L. L. Powell and Charles A. Huffman, two popular and reliable young men. Like their contemporaries they have been remarkably successful. Some of the largest and most profitable deals have been consummated through this agency. Not only have they been instrumental in furthering the interests of Roanoke, but have secured a reputation for reliability and square dealing. Through their efforts several important industries have been established here, and they now have in contemplation several enterprises that will result in bringing in additional capital. Active, prompt and attentive to their work, they have established an agency within the last two years that takes rank with the leaders. Agreeable, polite, affable and courteous to all, are prominent attributes possessed by this agency, and to their efforts the "Magic City" is largely indebted for the position that it to-day occupies.

\* \* \*

Another firm of solid standing is the one of

FRANCIS B. KEMP & CO.,

whose office on Jefferson street is regarded as headquarters, where points can be secured in the purchase of real estate, or where investments of a profitable character can be made with safety and absolute security as to future development. Well-posted as to the value of real estate, perfectly familiar with the growth of the city from 1884 to the present time, their experience is valuable, especially to capitalists or those seeking bargains that will yield good profits. During the past few months their business has increased largely, caused by prudent suggestions and valuable information imparted to purchasers who have visited their offices, and whenever they have recommended and advised a purchase it has always been a profitable and judicious investment that has resulted just as they predicted, clearly demonstrating their knowledge of property and location. In every business transaction they will be found perfectly upright and honest. They have largely assisted in the advancement of the city's interest, and never hesitate to lend a helping hand to any movement that will continue to advance Roanoke.

\* \* \*

In closing this article it is eminently proper to assert that Roanoke is not only a "Magic City" but the great industrial

mineral center of the Southwest. It is not "finished," but as its past has been wonderful, so will its future be.

CHAS. E. HERBERT.

WAGON FACTORY FOR GREENSBORO—GREENSBORO, N. C., March 17, 1890.—We are getting up a company for the purpose of manufacturing wagons and other kinds of vehicles. We have secured a building, engine, boilers, a saw mill and a tract of land containing 4 acres, situated in the eastern portion of Greensboro, N. C. As soon as there has been \$25,000 subscribed we will organize and commence business. Our capital stock is to be \$30,000, and to be increased to \$100,000 as the business may require it. When we get organized we will want machinery. SAM'L L. TROGDON.

CHARLESTON, W. VA., March 11, 1890.—The Potts Valley Mining & Manufacturing Co.'s property is situated in Potts Valley, Alleghany county, Va. Potts creek empties into Jackson's river at Covington, Va., on the Chesapeake & Ohio Railroad. The Potts Valley Mining & Manufacturing Co. control over 60,000 acres of the best iron ore lands in Virginia. The ore is continuous for a distance of over 20 miles, cropping out on either side of the mountains, and passing under the entire valley. The highest outcrop on the mountain sides is thirteen hundred feet above the valley. The vein runs from fifteen to fifty feet thick. There has been eight different analyses made by as many different chemists, showing an average of over fifty per cent. metallic iron. There are thousands of tons of solid ore exposed to view at different points for a distance of 20 miles. The company is now making arrangements to develop this property.

POTTS VALLEY MIN. & MANF. CO.

LOUISA, VA., March 14, 1890.—I have sold to a syndicate the Tolersville property, consisting of 479 acres, lying on both sides of the Chesapeake & Ohio Railway, 56 miles west of Richmond, Va., and in the center of about fourteen mines, viz: gold, iron and pyrites. A mine has just been sold to a London syndicate for \$75,000, and they expect to go to work right away. The Arminius Copper Mines Co. and the Sulphur Mines Co., of Virginia, are working several hundred hands, and it is impossible for them to supply the demand for the pyrites. The Arminius Co. purposes putting upon their property a plant for the manufacture of sulphuric acid on or about June 1st, this year. I am not at liberty to give you the names of those composing the syndicate who purchased the Tolersville property as yet. It is their intention, however, to lay off this property into business and residence lots at an early date and build a city where one should have been built years ago.

J. J. PORTER.

THE Baltimore MANUFACTURERS' RECORD is doing a work of very great worth for the South. It has made a record for reliability which causes its reports from different sections to have much weight with manufacturers and capitalists. As a result of this confidence it is causing large sums of money to be invested in the South annually.—Anniston Hot Blast.

MANAGERS of mills, factories, furnaces, mines, etc., and parties starting manufacturing enterprises and needing machinery or supplies of any kind will find it profitable to consult the advertising columns of the MANUFACTURERS' RECORD. Its pages contain names of the best houses in the country among manufacturers of and dealers in machinery and mill supplies.

## The Markets.

OFFICE MANUFACTURERS' RECORD.  
BALTIMORE, March 19, 1890.

Business in all branches of the iron trade has been light, and chiefly because there is a great deal of uncertainty among both buyers and sellers as to the stability of prices. The production of iron of all kinds, according to the latest published reports, shows an increase of some 7,000 to 8,000 tons per week as compared to the previous report a month ago. The increase since September 1, 1889, foots up about 45,000 tons per week. It is claimed on the part of a great many conservative people that this means a declining tendency in iron, and the fact that iron has been drooping for several weeks past is accepted as proof that the opinion is correct. This is only surface reasoning. The fact of the matter is that spring requirements are only partially covered among the large consumers, and that summer and fall requirements have been scarcely thought of. Another point is that the railroad builders have not yet begun to build or to look after supplies; that is, supplies beyond the ordinary requirements. And still a farther fact is to be mentioned, viz., that there are, it can safely be said, hundreds of enterprises just ready to bloom, every one of which will want large amounts of iron and steel material in one shape or another. In the face of all these facts we are told that crude iron especially is bound to go down. It is more likely to shoot up \$1 than to decline 25 cents, and this fact is corroborated, quietly of course, by some of the very closest observers in the market.

Last week several large transactions were closed for Southern irons, and this week negotiations which were begun last week will be closed for Southern coke and Southern forge irons. These large sales were due to the drop which circumstances recently brought about. A large amount of iron has been awaiting shipment in Alabama. Northern users will, no doubt, buy heavily when they feel confident that prices have touched rock-bottom. Though the fact is not admitted openly, yet the probabilities are that the early summer quotations will be stronger than those of to-day. No. 1 foundry is quoted in Northern tide markets at \$19.50 to \$20.50; Southern coke No. 1 is selling at \$19, Chicago; \$17 to \$17.50 in Cincinnati. No. 2 Northern foundry is \$18 to \$18.50 at tide, and forge \$17 to 17.25. Bessemer is quoted at \$21, Pittsburgh, though some lots have been taken at \$20.50. Muck bars have been sagging down for some weeks past, but a general demand is now likely to be presented. Steel billets, blooms and slabs have dropped, but at the drop there is now as much indifference on the part of buyers as there was anxiety a short time ago to buy, when prices were several dollars higher. Steel-making capacity is being expanded in several mills, and schemes are under consideration for the building of new steel-making plants.

Bar iron is under a fair demand in all Eastern and Western markets. Heavy car orders have been placed. Nails are declining, under a very heavy production, which has resulted in an accumulation of stocks at some points. The Eastern nail makers have adopted the Western schedule. Barb wire manufacturers are all restricting production. The Western warehouses are pretty well stocked, and the manufacturers and jobbers are now wondering whether they will be able to maintain prices. There is a heavy demand in sight for wrought iron pipe. Plate and structural iron are under better inquiry than for several weeks, but the parties who are trying to buy are demanding concessions in prices which makers are not inclined to give. The flurry over steel rail duties is causing some uneasiness, especially among the

smaller makers, who are apprehensive that if duties be reduced to \$5 or \$8 per ton, as has been suggested by one leading maker, their interests will be seriously affected. Last week some 30,000 tons of steel rails were sold, on a basis of \$34.50 in large lots, at Eastern mills.

### HARDWARE.

There have been no material changes in the general condition of business since last report. The volume continues satisfactory, and values, as a rule, are being maintained. Some sections of the South are suffering by reason of overflows and unusually cold weather, but will not be affected permanently thereby. Should raw material hold its own during the next 30 days, we do not anticipate decided changes in prices during the spring and summer months, but any considerable decline in iron, which we think is not at all likely, would necessarily be followed by corresponding changes in many lines of goods, and a general feeling of uncertainty take the place of the satisfactory conditions existing for some months past. It is to be hoped, therefore, that the market will hold and prices remain about where they stand at the present time.

Capitalists and small investors read "War" Robertson's advertisement in this paper.

### AMERICAN PIG IRON Storage Warrant Co.

(Bank of America Building.)  
44 Wall Street, NEW YORK.  
Correspondence of Furnaces Invited.

### DIXON'S GRAPHITE PIPE JOINT GREASE

For Steam or Gas Pipes, Bolts, Screws, etc.  
Makes a Perfect Joint that can be opened with ease  
in three years or thirty years.  
JOSEPH DIXON CRUCIBLE CO.  
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### PICKANDS, MATHER & CO. Pig Iron, Iron Ore and Coal.

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EDWARD ALLEN,  
Practical Lead Burner  
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Sulphuric Acid Chambers constructed on the latest improved plan. Strict attention given to the Lead Work of Concentrating Apparatus.  
P. O. BOX 329. ESTIMATES FOR THE ABOVE GIVEN.

### RIEHLE BROS. PHILA. SCALE AND TESTING MACHINE WORKS.

9th St. above Master. Store, 413 Market St.  
Makers of the strongest R. R. Track Scale in the world.



Look Carefully through this paper and you may find an advertisement of some machinery or other goods that you are in need of. Preserve this copy for future reference.

## Philadelphia × Warehouse × Company,

No. 235 Dock Street, Philadelphia.

CAPITAL, \$1,000,000, FULL PAID.

This Company makes advances upon Pig Iron stored at Furnaces (storage charge being nominal) or in Public Warehouses, upon reasonable terms. Particulars upon Application.

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Sewed Cotton Duck Belting.  
Especially adapted for Main Drivers, Saw Mills, Cotton Gins, Cotton Presses, and for all places where belts are subjected to moisture or atmospheric changes, the "CANDY" stands paramount.  
For further information, prices, etc., write  
The Candy Belting Co.,  
BALTIMORE, MD.

SOUTHERN AGENTS: Smith & Courtney, Richmond, Va. Atlanta Rubber Co., Atlanta, Ga. Baker, Sloc & Co., New Orleans, La.

THE BEST & CHEAPEST  
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IN THE WORLD  
STITCHED CANVAS BELTING  
THE CHESAPEAKE BELTING CO.  
BALTIMORE, MD.

### PAGE BELTING COMPANY,

SECTION OF COPPER WIRE-SEWED LIGHT DOUBLE BELTING.  
We Manufacture all the staple and of Leather Belting, including Also the "HERCULES" Lacing. The Hercules is lacing; combines Raw Hide and of Send for Catalogue Grades of Belting to use.  
MADE BY Page Belting Co. EXTRA. FULLY WARRANTED.  
LACING.  
No. 21, describing the "Kinds and for Different Kinds of Work."  
CONCORD, N. H., U. S. A.  
BRANCHES—Boston, New York, Chicago, St. Louis and San Francisco.

SHOULD BELTING CO. MANUFACTURERS OF  
IT BELTS THE EARTH AND MAKES THE MOON SPIN LIKE A TOP.  
OUR BELTING IS TANNED ON THE INTERIOR IS RAWHIDE. The only Perfect Belt made No slipping or last motion.  
FOR OUR VALUABLE BOOK, FREE.  
ST. LOUIS, MO.  
—AGENTS IN ALL CITIES—  
ALSO RAWHIDE LACE LEATHER.



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**THE AKRON IMPROVED****DRY KILN.**

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**AKRON, OHIO.****THE S. OBERMAYER FOUNDRY SUPPLY MFG. CO.****Foundry Facings.****Foundry Supplies.**

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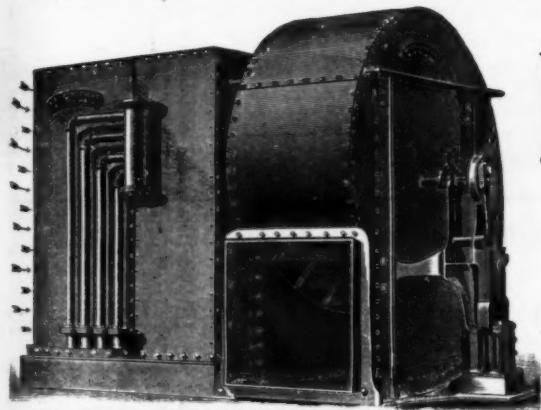
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Branches—91 Liberty Street, New York; 31 N. Canal Street, Chicago.**Keep Your Belts from Slipping**

AND SAVE YOUR POWER BY USING

**FRICTION COVERING FOR PULLEYS.**

Satisfaction Guaranteed. Easily Applied. No Rivets. Effective. Agents Wanted.

**NATIONAL PULLEY COVERING CO., BALTIMORE, MD.****The Osborn  
COTTON GIN  
Lubricator.**

PATENTED.

Consists in the application of oil to cotton being ginned. The quality of the cotton is thereby improved. The friction of the ginning operation is reduced. There is less breakage of the fibre, and consequently a greater average length of staple. The gin saws are prevented from gumming, gin cutting is obviated and the liability of fire from friction is diminished. The above are some of the advantages resulting from the use of this improvement. Territory for sale. Agents wanted. Apply to

**C. H. MERRY,**

VAZOO CITY, MISS.

**"Jones He Pays the Freight!"****United States****Standard Scales.**

A Warrant Given with Every Scale Sold, and an Absolute Guarantee of Perfection!

**HANDSOMELY FINISHED!****ACCURATE AND DURABLE!**

Sold by all Jobbers and Made by

**JONES OF BINGHAMTON, Binghamton, N. Y.****"Auburn" Watchman's Clock.**

The best in the market, and the only one combining a system of fire and superintendent's alarm. The most complete safeguard ever invented. No factory can afford to be without it.

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Farquhar's Standard Engines and Saw Mills.

Address A. W. FARQUHAR &amp; SON, York, Pa.

**VAILE & YOUNG'S  
Patent Metallic Skylights.**Without Putty.  
Construction adapted to all forms and styles of Skylights. Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required. Send for illustrated catalogue.

309 &amp; 311 NORTH STREET, BALTIMORE, MD.

**METAL  
SKYLIGHTS**

Made of galvanized iron and copper. Absolutely no leakage from any source; no dripping or sweating; fire-proof; ventilating. Galvanized iron and copper cornices and gutters. Sheet metal work for buildings. Send for illustrated circular.

**E. VAN NOORDEN & CO.,  
383 Harrison Ave. BOSTON, Mass.****McShane & Bell Foundry**

Fine Iron and Brass Castings Made to Order.



Manufacture those celebrated Bells for Tower Clocks, Court-Houses, Cotton Mills, Factories, &amp;c. Prices and catalogues sent free. Address

**H. McSHANE & CO.  
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HAMMERS  
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RUN BY BELT.****Over 1500 In Use.**

Three Styles, 15 lb. to 500 lb. Heads.

Our FORGES heat irons fast enough to keep Hammers and men fully employed.

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**BRADLEY & COMPANY, Syracuse, N. Y.  
63 Murray St., NEW YORK. 90 Broadway St., BOSTON.****BUFFALO SCALE CO., Buffalo, N. Y. Headquarters for RAILROAD TRACK SCALES and all other Scales.**

### New Enterprises at Basic City, Va.

BASIC CITY, VA., March 14, 1890.

*Editor Manufacturers' Record:*

A car factory is to be established here, and the capital stock, \$150,000, has nearly all been taken. Two large planing mills are to be erected at once.

A large brick enterprise is contemplated, capacity 10,000,000, by Quarles & Dinkle.

A paper mill is in contemplation.

Several other enterprises are to be started soon, which cannot be mentioned yet. Everything is bright and booming. A new company has just purchased 350 acres of land adjoining Basic City, which will be laid out in lots.

The Basic City Mining, Manufacturing & Land Co., which is pushing the organization of these enterprises, is meeting with great success in its work.

### Industrial Notes from Sheffield.

SHEFFIELD, ALA., March 15, 1890.

*Editor Manufacturers' Record:*

Terre Haute (Ind.) parties will build here the Sheffield Engine, Boiler & Foundry Works. Work will begin about April 1st. They will equip outright, buying everything. The investment will be about \$50,000 at first, with capacity for 50 men. Tom L. Cannon, Sheffield, can give information.

Terre Haute (Ind.) parties will build here a small trunk factory during April. All machinery will be bought. Investment about \$10,000. Information can be had of Tom L. Cannon.

A proposition has been made the Sheffield Land, Iron & Coal Co. by Indiana parties to build here car works. Investment \$400,000; employ 550 men; covers 25 acres of land. All new machinery will be used. It is almost a certainty that work will begin in 90 days.

Negotiations are pending for building here the second largest tool and fork works in the United States. Information will be furnished later.

Negotiations are about completed for the building of a 20,000-spindle cotton mill here during the summer.

A party of 60 Mobilians spent last week in Sheffield and invested \$50,000 in real estate to be improved at once.

J. H. Chambers, Sheffield, has organized at Montgomery and other South Alabama towns a company to build houses in Sheffield. They have closed the trade for 50 lots and will invest about \$100,000.

The workmen are now reaching the third story of the Sheffield Hotel. The contract is \$120,000 and will be completed by June.

Conrad & DeLeon have leased the West Sheffield limestone quarry and will build a two-mile railroad from quarry to city. They will put in saws and get out building stone, selling chips to the furnaces for fluxing.

The Alabama Furnace Supply Co. are opening new mines in the brown hematite ore fields and will put in machinery. The mines are contiguous to Sheffield. J. V. Allen can give information.

The attention at present attracted to Sheffield has created additional demand for houses. There is not one for rent, and 200 are needed. The investment will pay from 15 to 20 per cent., besides the increasing value in property.

RICHMOND, KY., March 7, 1890.—About 1,600 men are engaged in the construction of the Richmond, Nicholasville, Irvine & Beattyville Railroad. As stated two weeks ago, the entire road is under contract. The road is being built by the Ohio Valley Improvement & Contract Co., which has a paid-up capital stock of \$500,000. D. Shanahan & Co., of Richmond, Ky., are the contractors, and are also stockholders in the construction company. It is practically an extension of the Louisville Southern Railroad, leaving the Lexington extension of that road at Versailles, and extending thence through Nicholasville, 16 miles, to Richmond, 23 miles, from Richmond to Irvine, 23 miles, and from Irvine to Beattyville, 34 miles, a total distance of 90 miles. From Beattyville surveys are being made to points in South-west Virginia and to the border lines of Kentucky and Tennessee. Track-laying is now in progress from Nicholasville toward Richmond, the heaviest division of the work. There are two large viaducts between Richmond and Nicholasville, and between these two points the road also crosses the Kentucky river with a large bridge, having a center span of 300 feet long. The bridge is 100 feet high. At Irvine, Ky., the road again

crosses the Kentucky river and follows it nearly to Beattyville. The work as a rule is light. There are four tunnels on the line, and three of these are already completed; the fourth and longest, which is 650 feet in length, will be completed in 60 days. It is thought that the entire road will be open for traffic by August 1 next. Judge A. E. Richards, of Louisville, is president of the construction company, and Major J. W. Stine, of the same city, is president of the railroad company.

### CORTRIGHT

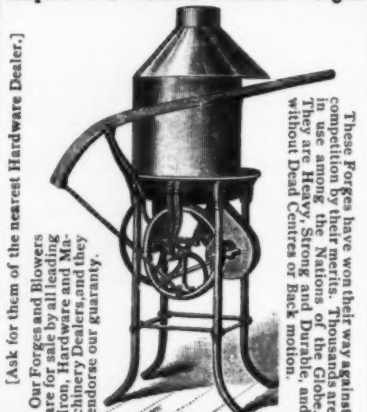


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A. & H. GOUGH, Proprietors,  
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**Files and Rasps**  
Equal to the best English File.  
OLD FILES REOUT.  
All kinds of Job Grinding.  
OFFICE AND WORKS,  
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CUTS CLOSER TO OBSTRUCTIONS AT SAME TIME CUTTING FULL WIDTH OF SWARTH  
Positive Force Clutch. Simple, Durable. Cutter Bar adjustable to the Reel, keeping it in perfect cutting condition.  
SEND FOR PRICE LISTS AND DISCOUNTS.  
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—DEALERS IN—  
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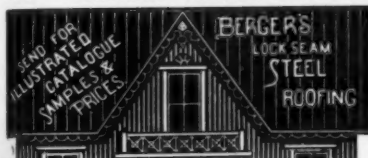


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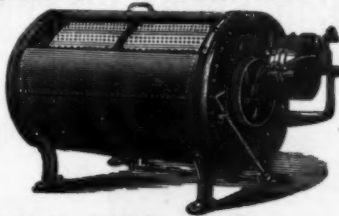
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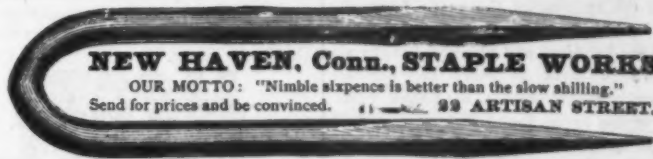
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WATER PROOF SHEATHING PAPERS & C.

SAMPLES & PRICE LIST.

## Eastern Lumber Markets.

[Spec. correspondence MANUFACTURERS' RECORD.]

NEW YORK, March 18, 1890.

There is more interest felt this week in the future of Southern hardwoods than since the opening of the year. Contractors, builders, architects and others who have the handling and using of hardwoods are all in favor of using the greatest amount possible rather than the least. One of the faults found with a great deal of the hardwood coming into this market is that the grades are not what they ought to be, and this fact accounts for the low prices which are occasionally quoted. Quotations are frequently deceptive, as our commission men say. Everything depends upon the quality of the lumber, and in reading quotations the reader ought to know what quality of lumber is referred to. It is sometimes, in fact, frequently difficult to tell.

We are now so near the opening of the spring trade that it is impossible to safely predict demand. There are a dozen buyers in the market now, where a month ago there was but one. If they all buy this week or next, and buy one-half of the lumber they are inquiring for, the next report to your paper will contain some very interesting announcements; but the fact is, that heavy sales and general activity are not likely to be heard of for weeks to come. Only the higher grades of hardwoods are meeting with prompt sale and bringing good prices. The lower grades are accumulating. There is more here, and more coming, than is wanted. Cottonwood is meeting with a fair degree of inquiry, and if prices were a little lower, no doubt a good business could be done. Prices range from \$20 to \$22. There is a greater inquiry for gum this spring than last, but it requires special work to secure its introduction. Along with the active demand for nearly all the hardwoods, there is a good demand for mahogany, the inquiry for which has been increased by lower prices. The stocks now in hand cover every variety of mahogany known in Mexico and Cuba.

Poplar and quartered oak are, as usual, meeting with good sale, and in consequence are held at strong prices. Considerable maple is being worked up for flooring purposes. Wholesalers who are developing a trade in the interior of New England and New York have managed to work off a great deal of maple during the past two weeks. As usual, good cherry is selling well, but culls are liable to become a drug.

A good deal of yellow pine and North Carolina pine has begun to arrive. Freight rates are \$7.50 from South Atlantic ports to \$8.50 from Gulf ports. Yellow pine is worth 50 cts. to \$1 more per 1,000 than last fall.

The makers of cypress shingles in North Carolina have been booking some good orders recently from Northern markets. The scarcity of Maine spruce has sent a great many orders into West Virginia for the spruce from that section.

Hemlock joists are selling at \$11.50 to \$12.00.

General trade is opening up. The manufacturers of sash, door and blinds are all busy. The manufacturers of saw-mill machinery are crowded with work. It is evident from their reports that a great deal of saw-mill building will be done throughout the South.

A good deal of cypress is coming into general use. The lake lumber dealers, while anxious for an advance in prices, are not inclined to attempt to push them up. There are too many ready to offer lumber at low figures.

There is a great deal of activity in all Northern cities with reference to building. Permits are thick. A large grain elevator is to be erected at Weehawken, N. J., which will call for 7,000,000 feet of lumber.

There are a score or two of large orders on the market, and the scramble now going on shows how anxious lumber dealers are for business.

In regard to white pine, it is impossible to make any predictions. English syndicates are looking after several stretches of yellow pine territory in the Gulf States.

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Yours very truly,

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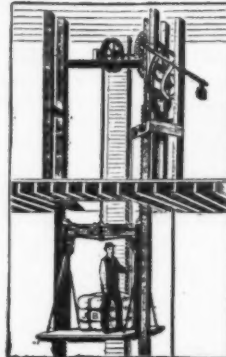
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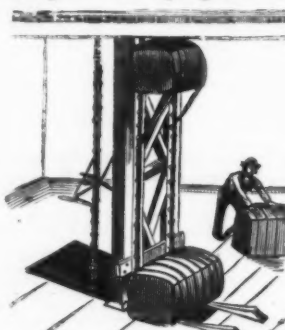
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It is the center of a rich agricultural country, which contains great natural resources. Hardwoods of many species are abundant, and great forests of long leaf pine, which impregnate the air with terebenthine odors. Several good hotels entertain travelers, and two are carefully conducted for the especial comfort of northern health and pleasure seekers.

Manufacturing of all kinds can be done here advantageously. Two railroads, the South Carolina and the Charleston, Cincinnati & Chicago, furnish transportation to all parts of the country. Two telegraph lines, the Postal and the Western Union, have offices here.

Churches and schools are numerous and well sustained.

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Camden invites capitalists, manufacturers, pleasure and health seekers and sportsmen to visit the city and examine the advantages it offers to all.

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## ITS HEALTH IS UNSURPASSED

and it is one of the finest locations in the South for a

## Winter Resort

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## ICE FACTORY

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## HOMES

or business will do well to correspond with the people of Sumter.

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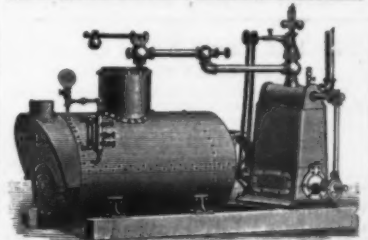
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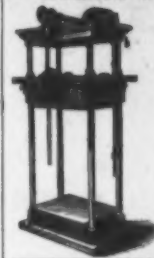


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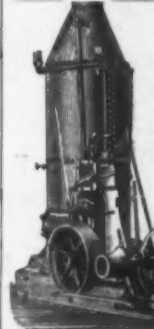
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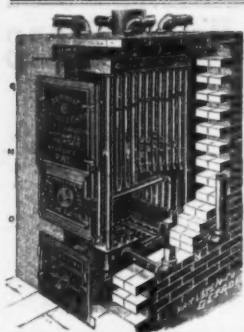
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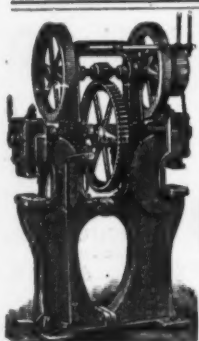
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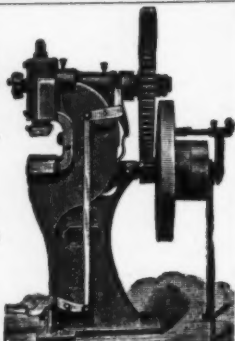
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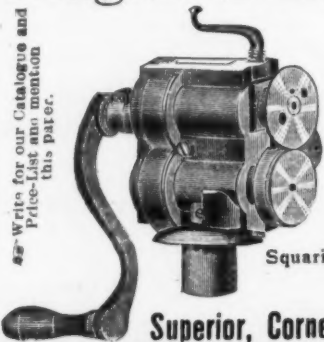


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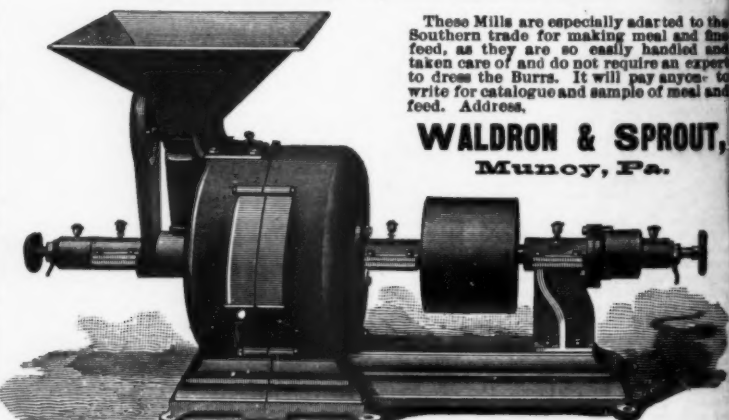
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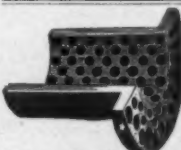
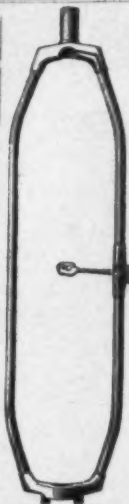
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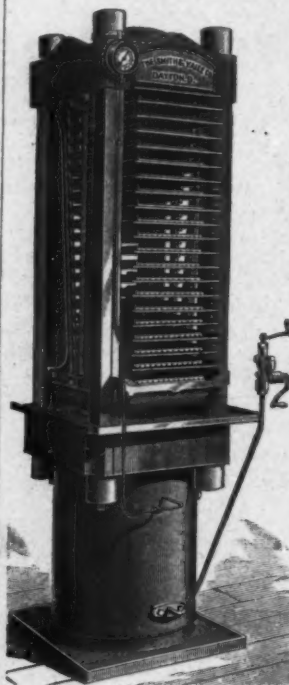
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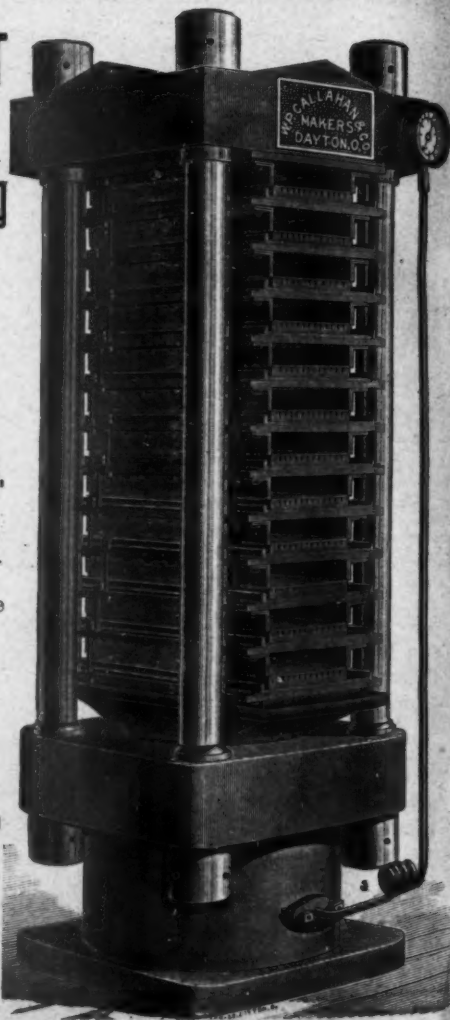
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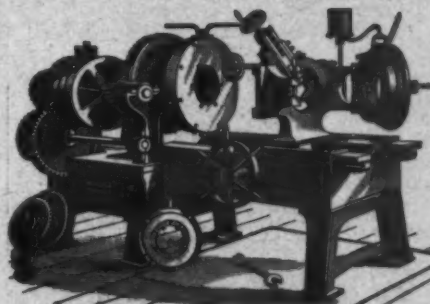
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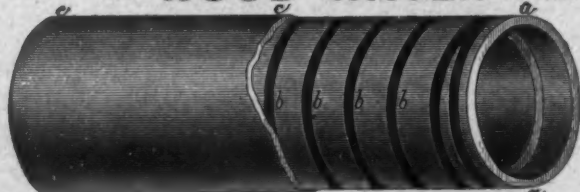
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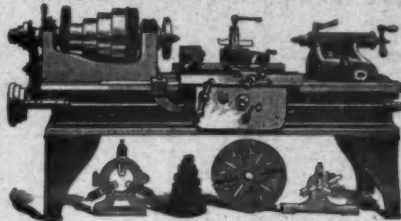
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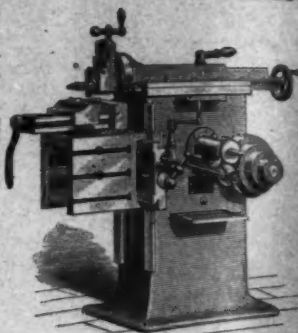
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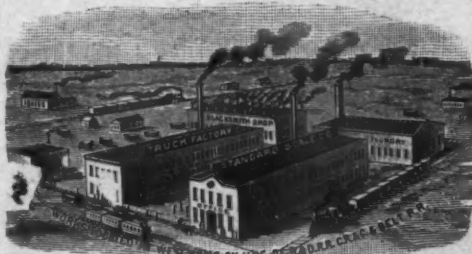
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